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A Division of the Department of Natural Resources

Annual Report

For the Year

1965

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G. A. FRANZ, JR.

Deputy Commissioner of Mines

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Table of Contents

Page

Letter of Transmittal 3
Personnel 4
Commissioners of Mines 5
Districts of Inspection 6
Publications of the Bureau of Mines 7
Foreword 9
Minerals in 1965 11
Summary of Production 13
County Activity and Production 14
Safety Awards 42
Injuries 44
Summary of Injuries 45
Fatal Injuries 48
Lost-Time Injury Statistics 49
Men Employed 51
First Aid Training 52
Inspections 53
Information Reports 54
Radon Daughter Control Program 55
Dust and Gas Control Program 57
List of Mineral Operations 59
List of Highway Projects 84
List of Oil and Gas Drilling and Producing Companies 86

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Letter of Transmittal

May 1, 1966

Mr. Richard T. Eckles
Coordinator of Natural Resources
132 State Capitol
Denver, Colorado

Dear Mr. Eckles:

In compliance with the requirements of the 1964 Session Laws of Colorado, Section 102, page 156 and Section 92-32-9, CRS 1963, the report of the State Bureau of Mines is herewith transmitted.

Respectfully submitted,
G. A. Franz, Jr.
Deputy Commissioner of Mines

Approved: May 13, 1966
R. T. Eckles
Coordinator of Natural Resources

Personnel

G. A. Franz, Jr., *Deputy Commissioner*	Lakewood
David R. Cole, *Senior Inspector*	Grand Junction
Norman R. Blake, *Inspector, District No. 1*	Black Hawk
Joseph L. Keating, *Inspector, District No. 2*	Colorado Springs
John W. Doyle, *Inspector, District No. 3*	Leadville
Elzie D. Ray, *Inspector, District No. 4*	Montrose
John H. Pakka, *Dust & Gas Control Inspector*	Grand Junction
Thomas D. High, *Uranium Mine Inspector*	Palisade
William E. Horn, *Uranium Mine Inspector*	Grand Junction
Bernard L. Javernick, *Uranium Mine Inspector*	Nucla
Calvin T. Warnica, *Uranium Mine Inspector*	Nucla
Margaret G. Lawrence, *Office Manager*	Denver
Thelma L. MacManus, *Senior Account Clerk*	Denver
Catherine C. Clark, *Senior Statistical Clerk*	Denver
Fern F. Colburn, *Receptionist*	Denver
Joy A. Roper, *Clerk Typist*	Grand Junction

Commissioners of Mines

HARRY A. LEE	May 11, 1895 - May 10, 1903
E. L. WHITE	May 10, 1903 - May 10, 1907
T. J. DALZELL	May 10, 1907 - May 10, 1911
T. R. HENAHEN	May 10, 1911 - May 10, 1915
FRED CARROLL	May 10, 1915 - May 10, 1919
HORACE F. LUNT	June 1, 1919 - June 1, 1923
JOHN T. JOYCE	June 1, 1923 - June 12, 1939
EDWARD P. ARTHUR	June 12, 1939 - August 26, 1943
FRED JONES	September 27, 1943 - April 25, 1950
WALTER E. SCOTT, JR	May 3, 1950 - May 31, 1959

Directors of Natural Resources

DR. EDWARD L. CLARK	October 15, 1959 - March 7, 1962
FELIX L. SPARKS	August 2, 1962 - June 30, 1963

Coordinator of Natural Resources

RICHARD T. ECKLES	August 15, 1963

Deputy Commissioner of Mines

G. A. FRANZ, JR	June 1, 1959

Districts of Inspection

DISTRICT NO. 1, all of the following counties: Adams, Arapahoe, Boulder, Cheyenne, Clear Creek, Denver, Douglas, Gilpin, Grand, Jackson, Jefferson, Larimer, Logan, Morgan, Phillips, Sedgwick, Washington, Weld, Yuma, and that part of Park County lying north of Fairplay.

DISTRICT NO. 2, all of the following counties: Baca, Bent. Conejos, Costilla, Crowley, Custer, Elbert, El Paso, Fremont, Huerfano, Kiowa, Kit Carson, Las Animas, Lincoln, Otero, Prowers, Pueblo, Teller, and that part of Park County lying south of Fairplay.

DISTRICT NO. 3, all of the following counties: Alamosa, Chaffee, Eagle, Garfield, Lake, Mineral, Moffat, Pitkin, Rio Blanco, Rio Grande, Routt, Summit, and that part of Gunnison County in the extreme northwest corner and lying north of the 39th degree of latitude, and that part of Saguache County lying south and east of the Continental Divide.

DISTRICT NO. 4, all of the following counties: Archuleta, Delta, Dolores, Hinsdale, La Plata, Mesa, Montezuma, Montrose, Ouray, San Juan, San Miguel, and Gunnison County, except the extreme northwest corner lying north of the 39th degree of latitude, and that part of Saguache County lying north and west of the Continental Divide.

Publications

Bulletins and circulars concerning specific subjects related to the mining industry of Colorado have been published from time to time as the need has become apparent. All of these publications may be consulted in most libraries in Colorado and many libraries in other states, as well as in the office of the Colorado Bureau of Mines. The following bulletins and circulars are the only ones presently in print:

Bulletin 17, Safety Rules and Regulations (Condensed), G. A. Franz, Jr., Deputy Commissioner of Mines, 1959.

Circular 2, Minerals of Colorado and Area Locations, G. A. Franz, Jr., Deputy Commissioner of Mines, 1960.

Bulletin 18, Oil Well Safety Laws, G. A. Franz, Jr., Deputy Commissioner of Mines, 1961.

Circular 3, Location Regulations for Lode and Placer Mining Claims, Tunnel Sites and Mill Sites, G. A. Franz, Jr., Deputy Commissioner of Mines, 1961.

Bulletin 19, Colorado Mining Laws with Safety Rules and Regulations, G. A. Franz, Jr., Deputy Commissioner of Mines, 1962.

A complete list of the bulletins and circulars of the Bureau of Mines can be found in the Annual Report for 1963.

Colorado Bureau of Mines Annual and Biennial Reports covering the mining activities of the State have been published regularly since May, 1895, except for the years 1925, 1936, 1938, 1940, 1944, 1945 and 1948. Reports are printed in limited quantity but may be consulted in most libraries in the United States and in the Colorado Bureau of Mines office.

Foreword

Among other duties set forth in 92-32-6, Colorado Revised Statutes 1963, the Commissioner of Mines is charged with distributing reliable information regarding the product, available supply, location, character and adaptability for economic purposes of the natural resources of Colorado. Such resources include but are not limited to coal, coal oil, asphalt, iron, building stone, slates, marble, fire clays, cement, pottery and porcelain clays, asbestos, mica and the various mineral waters within the province of this Bureau which in the judgment of the Commissioner of Mines may be advisable.

This 70th Annual Report is in compliance with the above charge and the production of minerals and their location are catalogued for the information of the industry and the general public. Our reports from 1895 to date give a complete listing of all mineral resources of the State and the methods and means of extracting the same, and they are carefully distributed so that the information contained therein is used to develop the mineral industry in Colorado.

The Bureau of Mines is charged with another very important duty to the industry which is the reduction of personal injury to the many people working in mineral extraction and benefaction. For the benefit and aid of those charged with safety in mining, milling and excavation of minerals and rock products, we submit a complete report on injuries and accidents which have occurred in the industry during the year, giving all pertinent information so that the danger areas may be known and corrective measures taken to prevent a reoccurrence of the same accidents.

For information to Colorado's mineral industry and other interested persons, we submit the only complete list of mineral operations compiled in the State. This list is found in the back pages of this report and constitutes an index of activity in the industry for each year. We are grateful to the Governor of Colorado, the Coordinator of Natural Resources and the State Legislature for their support of this department and mineral industry safety during the year. The generous contribution of every member of the Bureau of Mines staff towards the gathering and compilation of information in this report is appreciated and gratefully acknowledged.

G. A. FRANZ, JR.

Minerals in 1965

Colorado's mineral production of $345,377,001 was $7,364,478 more than in 1964, an increase of 2.2 per cent. Increased mineral prices, additional tonnage mined and more properties in operation were responsible for this increase. Metallic mineral production accounted for 45 per cent of the total mineral value. Mineral fuels accounted for 41 per cent and nonmetallic minerals accounted for 14 per cent. Metallic mineral production increased 2.8 per cent over 1964. Mineral fuels increased 2.0 per cent with less production in petroleum and increased production in gas and coal. Nonmetallic minerals, aided by sand and gravel, showed a slight increase.

The increase in metallic mineral production was led by molybdenum and followed by zinc, vanadium, lead and tungsten. Decreases were noticed in gold, silver and copper. The combined crude tonnage of molybdenum and base and precious metal ore during the year far exceeded any tonnage mined in Colorado in any previous year. With demands exceeding production of most metals, a favorable condition for increased activity has been created. The opening of many long-closed mines for sampling and evaluation is a result of this condition.

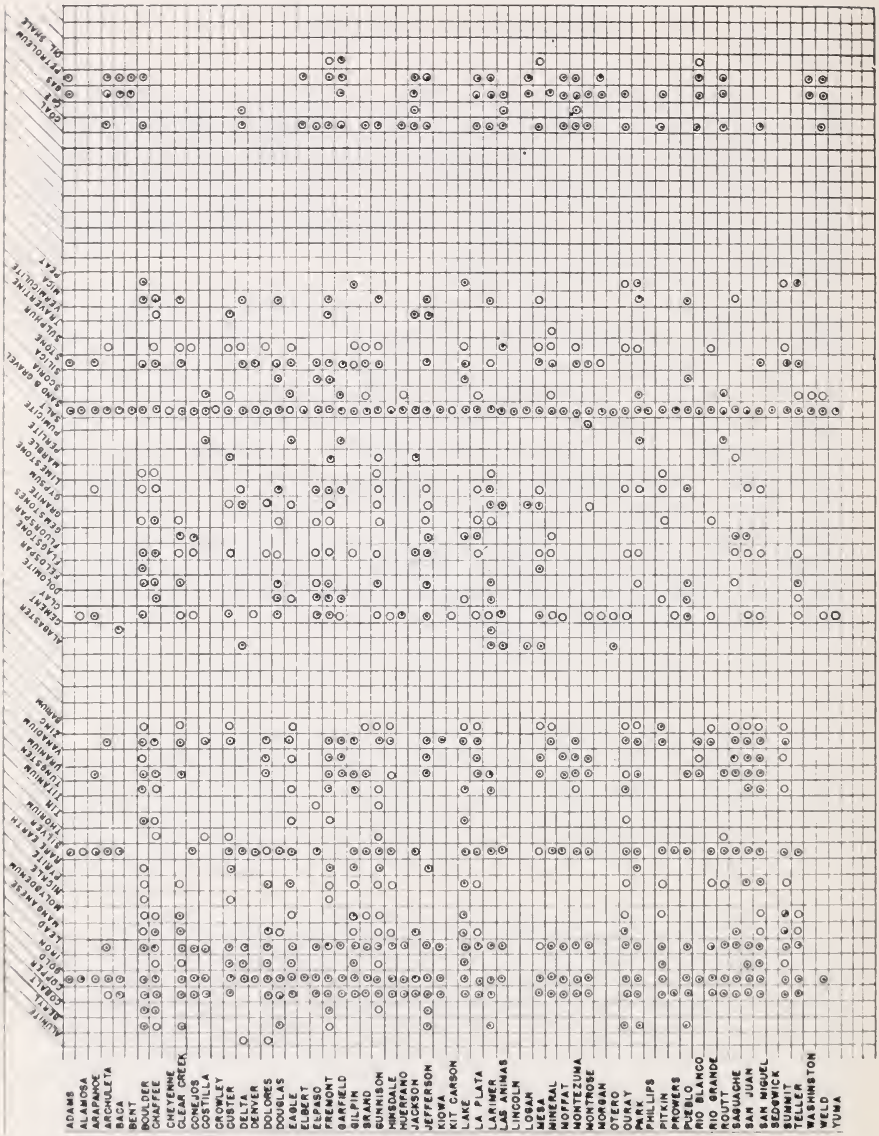
Nonmetallic mineral production was led by increased production of sand and gravel, limestone and peat moss and declines were listed in cement, stone and clay. Nonmetallic production is closely associated with building and construction in Colorado, and can be expected to fluctuate with the State's economy.

Mineral fuels, headed by petroleum which has shown a continuous decline for five years, natural gas and coal, which increased over 1964, moved to second place in Colorado's mineral production. Normal diminishing production of petroleum from the State's older fields is responsible for this decline. However, production was aided from the more than 16 wells located in the new Cache field in southwestern Colorado. New discoveries have not kept pace with abandonments during the last few years.

Experimental mining and retorting of oil shale continued at the Colony property on Piceance Creek above Grand Valley and at the government oil shale property at Anvil Points, operated by the Colorado School of Mines Research Foundation. In situ processes of recovery of oil from oil shale continued to be developed during the year by the U. S. Bureau of Mines at their experimental location near Rifle. If successful, this method would eliminate the mining of oil shale and would recover oil directly from the shale in place.

Colorado's mineral production is calculated by multiplying the units of production by the average yearly price of the mineral. Some average prices used in 1965 are as follows: Gold—$35.00 per ounce, Silver—$1.29 per ounce, Lead—16¢ per pound, Copper—35¢ per pound, Zinc—14.5¢ per pound, Uranium—$8.00 per pound, Vanadium—$1.80 per pound, Molybdenum—$1.55 per pound.

Information in this report is gathered by Bureau of Mines inspectors and office personnel and although the production figures cannot be accepted as final they are as nearly accurate as is possible to secure at this early date. They are intended as a preliminary indication and cannot be used for tax or other evaluation purposes. Petroleum production is supplied by the Colorado Oil & Gas Conservation Commission. Coal production is supplied by the State Coal Mine Division. Metallic and nonmetallic mineral production figures are received directly from the operator and in some cases where these reports are incomplete, an estimate from inspection reports is used.



MINERAL DEPOSITS AND PRODUCTION IN COLORADO BY COUNTY

Compiled By
COLORADO BUREAU OF MINES
May 1964

LEGEND:
DEPOSITS REPORTED.....○
PRODUCTION RECORDED.....⊙

Production of Metals, Nonmetallics, Mineral Fuels

State Totals

Metallics	1965 Production	Cumulative Through 1965
Molybdenum	$ 78,025,845	$ 830,341,204
Uranium	21,026,318	864,271,170
Vanadium	15,695,442	120,962,636
Zinc	15,208,539	420,748,801
Lead	7,502,486	351,798,380
Silver	3,385,271	605,371,908
Copper	3,248,854	111,298,547
Tungsten	2,349,364	46,561,879
Gold	1,396,324	920,393,294
Pyrite (Iron)	460,270	9,440,413
Tin	125,097	763,468
Beryl	38,400	1,341,534
Cadmium	48,189)	
Miscellaneous Metallics	5,817,913)	20,807,361
Total Metallic Mineral Production	$154,328,312	$4,304,100,595
Nonmetallics		
Sand and Gravel	22,722,618	194,908,949
Cement	14,658,965	190,421,680
Limestone	3,376,640	41,526,299
Stone	2,495,927	35,755,297
Clay	1,308,173	21,166,660
Feldspar, Mica, Gypsum	826,951	12,116,460
Fluorspar	630,750	32,511,322
Peat Moss	196,035	759,744
Gemstones	77,200	509,703
Volcanic Scoria, Pumicite	56,410	3,730,236
Perlite	55,025)	
Miscellaneous Nonmetallics	1,416,814)	8,666,077
Total Nonmetallic Mineral Production	$ 47,821,508	$ 542,072,427
Mineral Fuels		
Crude Oil	96,512,098	2,074,093,189
Gas Sold	11,353,418)	
Gas (All classes, well head value)	8,463,711)	204,708,640
Coal	26,897,954	2,180,254,578
Total Mineral Fuel Production	$143,227,181	$4,459,056,407
TOTAL STATE MINERAL PRODUCTION	$345,377,001	$9,305,229,429

County Activity and Production

ADAMS (1) *Brighton

Area 1,250 square miles

Plants, oil and gas—79 men

Petroleum and gas production from 68 wells in the county ranked second to the sand and gravel production in Adams County during 1965. Pits of the Cooley Gravel Company, Boise Cascade Sand & Gravel Company, and the Brannan Sand & Gravel Company were active all year and some gold was recovered from the gravel washing operations.

Miscellaneous	$ 15,025
Sand and Gravel	$2,034,133
Petroleum	1,729,615
Gas	238,980
Total	$1,968,595
TOTAL PRODUCTION FOR COUNTY	$4,017,753

ARAPAHOE (1) *Littleton

Area 820 square miles

Plants—25 men

Sand and gravel production in Arapahoe County came from pits operated by the Cooley Gravel Company and independent operators.

Sand and Gravel	$ 972,454
TOTAL PRODUCTION FOR COUNTY	$ 972,454

ARCHULETA (4) *Pagosa Springs

Area 1,364 square miles

Projects, petroleum—105 men

Construction work continued on the San Juan-Chama Diversion Project in Archuleta County specifically on the intake end of the Azotea Tunnel and initial work on the Blanco Tunnel. The major part of these tunnels will be driven with a mole or horizontal boring machine. Petroleum production from Gramps Field and other wells in the county was steady. Sand and gravel added to the county mineral production.

Sand and Gravel	$ 182,187
Petroleum	$ 194,794
TOTAL PRODUCTION FOR COUNTY	$ 376,981

---

*County Seats

BACA (2) *Springfield

Area 2,565 square miles

Oil and gas—61 men

Oil drilling activity by the Horizon Oil & Gas Company, Kerr-McGee Oil Industries and the Service Drilling Company, along with others added to Baca County economy in 1965. Oil and gas was produced from 58 wells, an increase over 1964. Sand and gravel was produced from the pits of the F & W Concrete Construction Company.

Sand and Gravel	$ 105,905
Petroleum	477,121
Gas	307,755
Total	$ 784,876
TOTAL PRODUCTION FOR COUNTY	$ 890,781

BOULDER (1) *Boulder

Area 758 square miles

Mines, plants, quarries, oil—203 men

Important mineral products produced in Boulder County were fluorspar, sand and gravel, stone, peat, gold, silver and limestone. Operations at the General Chemical Division of the Allied Chemical Corporation, Burlington Mine and Valmont Mill had a steady production of fluorspar. The Canyon Mining Company opened up the Eureka Mine for tungsten late in the year. The Lenway Corporation ran the Marion Mill on some tungsten ores during the latter part of the year and purchased some tungsten concentrate from former operators. Their dry upgrading plant ran on concentrate from various operators. Peat moss was produced from the pits of the Beaver Lake Peat Company near St. Vrain reservoir, the Continental Peat Moss Company pits near Caribou, the Oscar Beagle and Associates pits northwest of Nederland, Schrugg Peat Moss Company pits west of Ward, and McCoy-Jensen pits three miles west of Nederland. Sand and gravel production for highway and building construction was steady and many quarries were active in producing red, pink and variegated sandstone for building and decorating purposes. Petroleum production, although light, was steady during the year from several wells in the eastern part of the county.

Tungsten	$ 650
Miscellaneous	8,000
Total	$ 8,650

---

*County Seats

Sand and Gravel	1,214,583
Fluorspar	630,750
Stone	293,902
Peat	30,917
Gemstones	1,300
Total	$2,171,452
Petroleum	$ 6,636
TOTAL PRODUCTION FOR COUNTY	$2,186,738

CHAFFEE (3) *Salida

Area 1,040 square miles

Mines, plants, quarries, placers, projects—159 men

The Monarch Quarry, operated by the Colorado Fuel and Iron Corporation, had fairly steady production of limestone, used as a flux, at their Arkansas Valley plant in Pueblo. Quarries producing granite were operated by Joe Lackey, the L & L Trucking Company and Alpine Industries, Inc. These quarries are located in the Salida area. Joe Lackey operated the Josephine marble quarry, located in section 22, township 50 north, range 6 east. Work continued on the Homestake water collection and distribution systems which added employment for residents of the county. Considerable prospecting, opening and sampling old properties was evident during the year.

Miscellaneous	$ 6,200
Sand and Gravel	27,812
Limestone	850,000
Stone	160,000
Total	$1,037,812
TOTAL PRODUCTION FOR COUNTY	$1,044,012

CLEAR CREEK (1) *Georgetown

Area 395 square miles

Mines, plants, projects—616 men

Molybdenum ore development and preparation for production continued at the Urad Mine operated by the American Metals Climax Company, Climax Division east of Berthoud Pass during the year. The company is also erecting a five thousand ton per day reduction plant on the property and expects to start production in 1967. The Black Eagle Mill was operated by the Nye Metals Company throughout the year on molybdenum ores from their mine located at Apex, west of

---

*County Seats

Black Hawk. Development work with some production was noted at 24 mines in the county which indicates the general interest in mineral production. Completion of a divided highway on Interstate 70 between Idaho Springs and Empire Junction added materially to county employment during the year. Work continued on the Cabin Creek Hydroelectric Project south of Georgetown. The bypass tunnel was completed and the tunnel and raise between the two lakes was advanced. An earth slide above the intake tunnel during May of this year took the lives of three employees and constituted one of the most serious disasters in the construction industry in Colorado since 1952.

Miscellaneous	$	31,015
Sand and Gravel		43,093
Gemstones		8,000
Total	$	51,093
TOTAL PRODUCTION FOR COUNTY	$	82,108

CONEJOS (2) *Conejos

Area 1,274 square miles

Plants—44 men

Processing of perlite ore from New Mexico continued at the Great Lakes Carbon Corp. plant, located south of Antonito, during the year. Crude ore was crushed and exfoliated for the building trade. Sand and gravel and some gemstone production added to county employment.

Sand and Gravel	$	86,120
TOTAL PRODUCTION FOR COUNTY	$	86,120

COSTILLA (2) *San Luis

Area 1,220 square miles

Plants—27 men

Colorado Aggregate, Inc. operated their plant and quarry at Mesita during the year, producing volcanic ash as a lightweight aggregate. Sand and gravel for state highway use and building construction added to county mineral production.

Sand and Gravel	$	64,165
Scoria		56,410
Total	$	120,575
TOTAL PRODUCTION FOR COUNTY	$	120,575

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*County Seats

CUSTER (2) *Westcliffe

Area 738 square miles

Mines, plant, quarries—27 men

Some silver-lead ore was produced from the Lady Franklin mine and development work was done on the Williams mine operated by the Cotter Corporation. These properties are located one and one-half miles north of Silver Cliff and two miles northwest of Rosita. This operation continued for part of the year. Rancite was produced from the Abbit pit southeast of Rosita. Perlite production came from the Rosita pit, operated by Persolite Products Company, as did vermiculite from the Silver Cliff pit operated by Rimlite Incorporated.

Gold	$ 125
Silver	10,500
Copper	70
Lead	9,968
Zinc	14,326
Total	$ 34,989
Sand and Gravel	20,000
Stone	10,000
Perlite	21,000
Total	$ 51,000
TOTAL PRODUCTION FOR COUNTY	$ 85,989

DELTA (4) *Delta

Area 1,161 square miles

Plant, drilling—35 men

Sand and gravel, produced by the Delta Sand and Gravel Company, along with some CO_2 gas and coal comprised Delta County's mineral production in 1965.

Sand and Gravel	$ 48,047
Miscellaneous	21,000
Total	$ 69,047
Coal	$ 224,617
TOTAL PRODUCTION FOR COUNTY	$ 293,664

---

*County Seats

DENVER (1) *Denver

Area 80 square miles

Plants—177 men

Although many mining and oil companies have their main offices in Denver, there was no mineral production from this county outside of sand and gravel in 1965. The Globe Plant of the American Smelting & Refining Company and the Denver Plant of the General Chemical Division, Allied Chemical Corporation, operated all during the year on minerals shipped in from other counties in the State. The Globe Plant refines metals from other plants and extracts cadmium. The General Chemical plant manufactures sulphuric acid from pyritic ore originating at Climax in Lake County.

Sand and Gravel	$ 430,276
TOTAL PRODUCTION FOR COUNTY	$ 430,276

DOLORES (4) *Dove Creek

Area 1,029 square miles

Mines, plants, projects—116 men

With the exception of time lost during expansion of the Rico Mill, the Rico Argentine Mining Company operations were steady all year. A new rod mill and other equipment was installed to improve recovery and separation. Production from the Argentine and Mountain Springs mines supplied tonnage for the mill. New hoisting equipment was installed underground in the Argentine Tunnel. Other mining operations were conducted at the California by Williams Mining Partnership, at the Payroll Mine by the Mountain States Mining Company and at the St. Louis Tunnel by the Iron Clad Mining Company. The Rico Argentine Acid Plant was idle most of the year.

Gold	$	1,400
Silver		14,000
Copper		2,000
Lead		364,000
Zinc		264,000
Uranium		....
Vanadium		....
Total	$	645,400
Sand and Gravel	$	20,000
TOTAL PRODUCTION FOR COUNTY	$	665,400

---

*County Seats

DOUGLAS (1) *Castle Rock

Area 844 square miles

Mines, plants, quarries, projects—84 men

Clay production in Douglas County came from the Hogback No. 3 and 4 and the Pioneer mines operated by the Robinson Brick & Tile Company, from the Madis, Stroh and Stevens Ranch mines operated by Stroud-Whisenhunt, and from the Ringenberg mine operated by the Denver Brick & Pipe Company, and the Waterton Mine operated by the Waterton Sand & Clay Company. Crushed stone was produced by The M & S Inc. from the Skeleton and M & S quarries. Work continued on the Aurora Rampart Water Tunnels No. 1 and 2 by F. H. Linneman, Inc. for the cities of Aurora and Colorado Springs.

Sand and Gravel	$ 324,740
Clay	165,950
Gemstones	3,000
Miscellaneous	175,682
Total	$ 669,372
TOTAL PRODUCTION FOR COUNTY	$ 669,372

EAGLE (3) *Eagle

Area 1,686 square miles

Mines, plant, quarry, projects—710 men

Water reclamation activities in Eagle County were at a high level in 1965 with construction work on the Ruedi Dam and bypass tunnels by the Lockheed Shipbuilding & Construction Company, and work on the gathering complex by Winston, Foley, Frazier-Davis & Hurley. Work continued on the Homestake Dam by Morrison-Knudsen, Inc. and on the Homestake Tunnel by Boyles Brothers Drilling Company. The Homestake project will eventually deliver water to Colorado Springs and Aurora. Production of cinder blocks from the Dotsero Quarry by the Lava Products, Inc. was steady during the year. Eagle County's largest mining operation, the Eagle Mine and Mill property, operated by the New Jersey Zinc Company, was steady during the year with production of zinc, lead, silver and copper slightly lower than in 1964. Considerable development work was carried on at this property through a joint venture program with the American Smelting & Refining Company on deep level development.

---

*County Seats

Gold	$ 100,000
Silver	840,000
Copper	452,760
Lead	1,306,880
Zinc	5,670,729
Total	$8,370,369
Sand and Gravel	58,345
Pumice	12,500
Total	$ 70,845
TOTAL PRODUCTION FOR COUNTY	$8,441,214

ELBERT (2) *Kiowa

Area 1,864 square miles

Mines—17 men

Elbert County sand and gravel production, in addition to clay produced by the Robinson Brick & Tile Company and the Denver Brick & Pipe Company, composed the county's production during the year. The Buffalo and Tucker clay mines are located northeast of Kiowa.

Sand and Gravel	$ 11,455
Clay	76,012
Total	$ 87,467
TOTAL PRODUCTION FOR COUNTY	$ 87,467

EL PASO (2) *Colorado Springs

Area 2,159 square miles

Mines, plants, quarry, projects—365 men

Clay production from the Hecla Mine, located in section 13, township 12 south, range 69 west, by Dale Hoover for the Standard Fire Brick Company, added to sand and gravel and aggregate production from the Castle Quarry, Carson Quarry, Lennox Breed, Springs Silica and others, comprise the mineral production of this county in 1965. Stone was produced from the White Eagle and Navajo pits and work started on the Rampart Range No. 2 Tunnel to divert water to the City of Colorado Springs. Excavation work on the NORAD complex in Cheyenne Mountain was completed in 1964.

---

*County Seats

Sand and Gravel	$ 977,160
Limestone	710,000
Stone	20,000
Clay	18,289
Miscellaneous	23,144
Total	$1,748,593
Coal	$ 1,806
TOTAL PRODUCTION FOR COUNTY	$1,750,399

FREMONT (2) *Canon City

Area 1,562 square miles

Mines, plants, quarries, oil—336 men

Operations at the Cotter Corporation uranium concentrator, located three miles south of Canon City, were suspended early in the year pending development of base and precious ore for the mill feed. The plant was changed over to handle ores other than uranium during 1964. Operations were steady at the Ideal Cement Company quarry and plant at Portland with average production. Considerable exploration and development work was conducted in the Wet Mountain area by Cotter Corporation and others. The New Jersey Zinc Company sintering plant, located two miles south of Canon City, maintained steady upgrading activity on zinc concentrates from the company's Eagle Mine in Eagle County. Fremont County continued to have the most diversified mineral activity in the State with development and production of a wide variety of metallic and nonmetallic minerals. Eleven mines, seven plants and ten quarries were active in 1965.

Gold	$ 1,900
Silver	21,700
Copper	4,900
Lead	48,100
Zinc	33,100
Uranium	....
Vanadium	....
Miscellaneous	12,400
Total	$ 122,100
Cement	7,142,404
Sand and Gravel	28,315
Limestone	1,242,182
Stone	132,567
Clay	34,539
Perlite	20,025

---

*County Seats

Feldspar, Mica, Etc.	3,351
Gypsum	745,522
Miscellaneous	7,678
Total	$ 9,356,583
Petroleum	59,288
Coal	1,544,079
Total	$ 1,603,367
TOTAL PRODUCTION FOR COUNTY	$11,082,050

GARFIELD (3)

*Glenwood Springs

Area 3,000 square miles

Mines, plants, quarries, projects, oil—282 men

Research work on production of oil from oil shale was continued at the Anvil Points operations by the Colorado School of Mines Research Foundation and at the Colony Development Company mine and prototype plant on Parachute Creek north of Grand Valley. Mining methods and procedures based on handling a large tonnage of oil shale were tested and developed as was the procedure for extracting kerogen and oil from shale. Progress was made in developing procedures and methods for room and pillar mining in oil shale beds with rooms carried at a maximum size. The Rifle Creek vanadium mine was further opened by the Union Carbide Corporation, Mining & Milling Division and ore produced was trucked to their plant at Rifle. Limestone was produced from the Basic Chemical Corporation Quarry north of Glenwood Springs and from the Glenwood Springs Lime Quarry operated by Frank H. Norberg Company. The Rifle Creek Dam project, under construction by the Northwestern Engineering Company, Inc., which includes the Silt project, under the direction of the U. S. Bureau of Reclamation, added to the county employment.

Miscellaneous	$3,444,902
Sand and Gravel	96,298
Limestone	340,547
Total	$ 436,845
Gas	173,071
Coal	39,390
Total	$ 212,461
TOTAL PRODUCTION FOR COUNTY	$4,094,208

---

*County Seats

GILPIN (1)

*Central City

Area 149 square miles

Mines, plants, placers—95 men

Fourteen base and precious metal properties were opened and sampled in Gilpin County in 1965 with a small production of gold, silver, lead and zinc coming from the various properties. Molybdenum production came from the Wilma Mine, located on Dakota Mountain at Apex. Intermittent work was noted at the Glory Hole property with some gold production. Peat, sand and gravel and gemstones made up the balance of production from this once large producing county.

Miscellaneous	$ 167,405
Sand and Gravel	429,941
Peat	12,604
Total	$ 442,545
TOTAL PRODUCTION FOR COUNTY	$ 609,950

GUNNISON (3 & 4)

*Gunnison

Area 3,243 square miles

Mines, plants, quarries, projects—643 men

Mining and milling operations continued throughout the year at the Keystone property operated by McFarland & Hullinger and located three miles northwest of Crested Butte, and at the Atlas mill and Micawber mine operated by the Elk Mountain Mining & Milling Company. The Keystone property was by far the largest producer of gold, silver, copper, lead and zinc in the county with an annual tonnage in excess of 75,000 tons. Sixteen other properties were in various stages of operation during the year, opening and sampling mines that have been idle for a good many years. These were the Baxter Group, Big Iron Hill, Brown Derby, Carter, Forest Queen, Gold Links, Silent Friend, Silver Spruce, Titan and the Star Group. Dade & Shumway operated the Daisy and Ruby Chief mines. Sand and gravel production was normal. Late in the year the gates were closed on the Blue Mesa unit of the Curecanti Project and the reservoir behind the dam began to fill.

Gold	$ 3,619
Silver	523,000
Copper	263,351
Lead	792,720

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*County Seats

Zinc	1,222,863
Miscellaneous	64,000
Total	$2,869,553
Sand and Gravel	643,256
Gemstones	1,000
Total	$ 644,256
Coal	$2,708,157
TOTAL PRODUCTION FOR COUNTY	$6,221,966

HINSDALE (4) *Lake City

Area 1,062 square miles

Mines, plant, project—49 men

Prospecting and development work on the Belle of the West by Joe Swank and Ted Buder, the Big Casino by Shiprock Limited, Groves Tunnel by Cole Brothers, Monte Queen and Highland Chief by Joe Pitts, Pride of America by Pray and Knapp, Sterling Group by the Thirty-Two—Thirty-Six Development Company, and the Ute & Ulay by the Hughes Mining Company indicated that with increased mineral prices, Hinsdale County would again produce base and precious metals.

Miscellaneous	$ 2,000
Sand and Gravel	$ 10,000
TOTAL PRODUCTION FOR COUNTY	$ 12,000

HUERFANO (2) *Walsenburg

Area 1,580 square miles

Mine, plant, project—25 men

Clay was produced at the Huerfano Pit No. 4 by the Empire Clay Products, Inc., located 13 miles northeast of Walsenburg. Sand and gravel and other miscellaneous minerals added to county production.

Sand and Gravel	$ 188,646
Clay	5,400
Perlite	1,500
Gemstones	1,500
Total	$ 197,046
Coal	$ 264,439
TOTAL PRODUCTION FOR COUNTY	$ 461,485

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*County Seats

JACKSON (1) *Walden

Area 1,628 square miles
Oil—65 men

Petroleum production from 29 wells was steady during 1965. Sand and gravel production from various pits in the county was nominal.

Sand and Gravel	$ 1,000
Petroleum	872,032
Gas	30,043
Total	$ 902,075
TOTAL PRODUCTION FOR COUNTY	$ 903,075

JEFFERSON (1) *Golden

Area 791 square miles
Mines, plants, quarries, projects—339 men

Uranium production in Jefferson County dropped considerably with the closing of the Schwartzwalder Mine in 1964. Some small production of uranium was noted from other properties on the Front Range. Sand and gravel from the numerous pits of the Lee Sand & Gravel Company, the Asphalt Paving Company, Bear Valley Gravel Company, Brannan Sand & Gravel Company and the Rio Grande Gravel Company was steady during the year as was clay production from mines operated by the Denver Brick & Pipe Company, George W. Parfet Estate, Inc., John L. Harvey, Lakewood Brick & Tile Company, Robinson Brick & Tile Company, Kaiser Refractory Corporation, Duane Bruno, H. M. Ruby Clay Company and G. C. Bennetts & Sons. Many quarries in the county produced varicolored stone for the building trade and The Idealite Company produced lightweight aggregate all during the year. Some gold and silver was recovered from gravel pit washing plants.

Uranium	$ ....
Vanadium	....
Miscellaneous	3,300
Total	$ 3,300
Sand and Gravel	$2,281,024
Stone	102,025
Clay	322,904
Aggregate	523,000
Miscellaneous	8,800
Total	$3,237,753
TOTAL PRODUCTION FOR COUNTY	$3,241,053

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*County Seats

KIOWA (2) *Eads

Area 1,794 square miles

Plant, oil—42 men

Gas and petroleum production was recovered from Brandon Field operated by J. M. Huber and the Fremont Petroleum Company. Drilling activity was normal and sand and gravel production added to county mineral values.

Sand and Gravel	$ 16,784
Gemstones	2,000
Total	$ 18,784
Petroleum	44,778
Gas	194,039
Total	$ 238,817
TOTAL PRODUCTION FOR COUNTY	$ 257,601

LAKE (3) *Leadville

Area 384 square miles

Mines, plants, placers, projects—3,717 men

The Irene Shaft was reactivated for development purposes during June of 1965 by the Resurrection Mining Company and the American Smelting & Refining Company, a joint venture. The opening of this shaft initiated the first activity in base metals in Lake County in several years. Operations at the Climax Property of American Metals Climax, Inc., were accelerated during the year by the erection of an oxide plant designed to recover molybdenum from their oxide ore. This plant is scheduled to begin operation early in 1966. Tonnage at Climax was increased in 1965 and molybdenum recovery exceeded any previous year due to improved methods of extraction developed by the company. Employment was greater in 1965 and development work and preparations for mining on the 600 Level were constant during the year. Sand and gravel was produced for the Climax Molybdenum Company by C. Ryan & Son Construction Company. The Fryingpan-Arkansas Project and the Homestake Project, under direction of the U. S. Bureau of Reclamation, materially added to county employment.

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*County Seats

Molybdenum	$78,025,845
Tungsten	2,348,714
Pyrite	335,270
Tin	125,097
Total	$80,834,926
Sand and Gravel	122,482
Peat	23,100
Gemstones	1,000
Total	$ 146,582
TOTAL PRODUCTION FOR COUNTY	$80,981,508

LA PLATA (4) *Durango

Area 1,691 square miles

Mines, plants, placers, projects, petroleum—443 men

Placer operations at the Thomas Property by the American Mining & Dredging Company, located 11 miles north of Durango, were intermittent during the year with a small amount of gold production reported. Many of the old base and precious metal mines in the county were opened and evaluated for future production. Mineral Concentrates & Chemical Company operated the Bessie G Mine during the summer months. Sand and gravel, petroleum and gas production added to the county economy. La Plata County ranks high in the production of natural gas in the State. State and Federal road projects added to county employment.

Miscellaneous	$ 4,000
Sand and Gravel	184,961
Miscellaneous	14,600
Total	$ 199,561
Petroleum	87,803
Gas	4,632,943
Coal	148,629
Total	$4,869,375
TOTAL PRODUCTION FOR COUNTY	$5,072,936

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*County Seats

LARIMER (1) *Fort Collins

Area 2,640 square miles

Mines, plants, quarries, oil—365 men

Larimer County ranked first in stone production in 1965 from its many quarries producing red, pink, white and variegated sandstone for building and decorative purposes. Cement production from the Ideal Cement Company Boettcher Quarry and Plant at La Porte was normal during the year which maintained their first place in mineral production in the county. Limestone was quarried from the Boettcher Quarry, the Holly Quarry, the Pinion Grove Quarry, the Rex Quarry and the Union Pacific Quarry. Gypsum was produced at the Goodwin Quarry, the Loveland Quarry and the Munroe Quarry. Beryllium was processed at the Mineral Concentrates & Chemical Company plant at Loveland and at the Beryl Ores Company plant in Jefferson County. Sand and gravel and petroleum production was normal.

Cement	$ 7,516,561
Sand and Gravel	886,554
Limestone	1,233,911
Stone	1,215,632
Gypsum	78,078
Miscellaneous	4,100
Total	$10,934,836
Petroleum	870,057
Gas	11,452
Total	$ 881,509
TOTAL PRODUCTION FOR COUNTY	$11,816,345

LAS ANIMAS (2) *Trinidad

Area 4,798 square miles

Mines, oil—40 men

Clay production was normal in Las Animas County from the pits of the Empire Clay Products, Inc. south of Trinidad, and from the Santa Fe mine and Trinidad pits operated by the Scott Mining Company and the Harbison-Walker Refractories Company, respectively. Sand and gravel and gas production added to the value of mineral production.

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*County Seats

Sand and Gravel	$ 251,020
Clay	39,990
Total	$ 291,010
Gas	298
Coal	4,710,014
Total	$4,710,312
TOTAL PRODUCTION FOR COUNTY	$5,001,322

LOGAN (1) *Sterling

Area 1,849 square miles

Mines, oil—456 men

Petroleum production from 348 wells located in Logan County was 14,531 barrels more than in 1964. Exploration drilling was normal with a fair measure of new discoveries. Sand and gravel production was steady.

Sand and Gravel	$ 101,556
Petroleum	10,109,137
Gas	464,540
Total	$10,573,677
TOTAL PRODUCTION FOR COUNTY	$10,675,233

MESA (4) *Grand Junction

Area 3,334 square miles

Mines, plants, quarries, projects, drilling—1,277 men

Uranium production in Mesa County came from 35 carnotite mines located in the Beaver Mesa, Calamity Mesa, Outlaw Mesa and Tenderfoot Mesa areas. County production of uranium was third in the State. The Climax Uranium Mill at Grand Junction operated steady all year on ores from their own mines in the Four Corners Area. This plant has not participated in the Atomic Energy Commission Stretch-Out program and will cease operations after 1966. Grand Junction continues to be the center of uranium activity in Colorado. Union Carbide Corporation, Mining & Metals Division has signed contracts with the Atomic Energy Commission which will permit them to process and mine uranium through 1970. Sand and gravel operations as well as highway construction added to the county economy. Gas production from 37 wells in the county was steady with a normal amount of exploration drilling. During the year the branch office of the Colorado

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*County Seats

Bureau of Mines was moved from Naturita to Grand Junction and is now located in the Petroleum Building.

Uranium	$3,938,438
Vanadium	3,537,252
Total	$7,475,690
Sand and Gravel	729,655
Stone	12,660
Clay	1,000
Total	$ 743,315
Gas	302,748
Coal	613,075
Total	$ 915,823
TOTAL PRODUCTION FOR COUNTY	$9,134,828

MINERAL (3) *Creede

Area 923 square miles

Mines, plants, placers, projects—73 men

Mining activity in Mineral County was steady during the year at the Emperius Mining Company Amethyst and Commodore mines. Ore from these mines was processed in the Emperius mill at Creede. Of importance to the county as well as to the State were discoveries of new ore bodies on the Bull Dog property owned by Bull Dog Mountain Inc. and operated by the Homestake Mining Company who has an option to purchase this property. Some ore was shipped from the Equity property, owned by Leslie Turnipseed and operated by Joe Cox. Development work was continued on the Mexico property by King Solomon Mining Company.

Gold	$ 22,937
Silver	231,333
Copper	200,915
Lead	524,999
Zinc	569,717
Cadmium	23,189
Total	$1,573,090
Sand and Gravel	3,100
Gemstones	2,500
Total	$ 5,600
TOTAL PRODUCTION FOR COUNTY	$1,578,690

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*County Seats

MOFFAT (3) *Craig

Area 4,761 square miles

Mines, plants, petroleum—126 men

Several small mines operated intermittently in Moffat County during the year on exploration and development work with some production. Of greater importance to the county economy were 139 oil wells producing oil and gas from an increased number of discoveries. Petroleum production was steady with a normal amount of exploration drilling.

Sand and Gravel	$ 81,195
Miscellaneous	1,800
Total	$ 82,995
Petroleum	2,325,905
Gas	1,733,649
Coal	1,049,282
Total	$5,108,836
TOTAL PRODUCTION FOR COUNTY	$5,191,831

MONTEZUMA (4) *Cortez

Area 2,097 square miles

Mines, plant, projects, petroleum—451 men

Development and exploration work was done at the Brownville Group, the Crawford Group, the Red Arrow and the Twin Canyon Group, all located north and east of Mancos. These properties are former gold and silver producers. Of importance to Montezuma County is the rapidly developing Aneth oil field in the southern part of the county. Production from this field added materially to county petroleum and gas production. Sand and gravel added to the value of mineral production.

Miscellaneous	$ 8,000
Sand and Gravel	$ 564,884
Petroleum	3,771,170
Gas	284,869
Total	$4,056,039
TOTAL PRODUCTION FOR COUNTY	$4,628,923

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*County Seats

MONTROSE (4) *Montrose

Area 2,240 square miles

Mines, plants, projects, drilling—1,292 men

Since important uranium production in Colorado started in 1949, Montrose County has ranked first in the production of this mineral. During the year 1965, 95 mines contributed to uranium and vanadium production which was somewhat less than in the peak year of 1957. This production however is still significant to the economy of the county and the State. Active areas are Long Park, Monogram Mesa, Carpenter Ridge, Martin Mesa, Bull Canyon, and the Dolores Rim. Carnotite mining operations in Montrose County are conducted by the Union Carbide Corporation, Mining & Metals Division, Vanadium Corporation of America, Climax Uranium Company and many independent operators. Production at present should remain fairly steady due to the fact that most properties are being operated under the Atomic Energy Commission Stretch-Out Program which will continue through 1970. The Union Carbide Mining & Metals Division plant at Uravan is the only plant presently operating in the county. Ores are shipped to this mill as well as to plants in Mesa County and plants in New Mexico and Utah. Sand and gravel production was steady. Reclamation projects and road projects in the county contributed notably to employment. Work on the Morrow Point Dam on the Gunnison River at Cimarron was steady during the year.

Uranium	$ 8,089,800
Vanadium	7,418,316
Miscellaneous	3,500
Total	$15,511,616
Sand and Gravel	134,764
Miscellaneous	12,000
Total	$ 146,764
Coal	$ 362,073
TOTAL PRODUCTION FOR COUNTY	$16,020,453

MORGAN (1) *Fort Morgan

Area 1,300 square miles

Oil and gas—425 men

Petroleum and natural gas comprised the major mineral production of Morgan County in 1965. Production from 224 wells in all fields was 795,446 barrels lower than in 1964. Sand

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*County Seats

and gravel production for highway and building construction was steady. A new oil field, the Gringo, located north of the Hunter field was opened during the year.

Sand and Gravel	$ 38,207
Miscellaneous	35,000
Total	$ 73,207
Petroleum	4,284,179
Gas	969,788
Total	$5,253,967
TOTAL PRODUCTION FOR COUNTY	$5,327,174

OTERO (2) *La Junta

Area 1,276 square miles

Plant, oil—25 men

The Valley Concrete Company produced sand and gravel from their Rocky Ford pit and plant at Rocky Ford. Highway construction also added to employment in the county.

Sand and Gravel	$ 116,055
TOTAL PRODUCTION FOR COUNTY	$ 116,055

OURAY (4) *Ouray

Area 504 square miles

Mines, plants—188 men

Base and precious metal mining and milling operations at the Idarado Mining Company in Ouray and San Miguel counties retained first place in copper, lead, silver and gold production in the State from their efficiently operated properties in the two counties. Crude ore production averaged in excess of 1,500 tons per day and the developed ore at year's end was the largest in the company's operating history. The company is to be commended for receiving the First Place Safe Operator Award for the year 1965. Also of importance to Ouray County are the operations of Federal Resources Corporation on the Revenue and Camp Bird properties. Considerable exploration and development work was completed at both properties as well as on the Hidden Treasure vein. Their Camp Bird mill was operated on a one-shift basis during part of the year. Exploration work continued on the Rouville claims as well as on other properties. Some production was noted from the Wewissa, Bachelor, Keno, and Senorita mines.

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*County Seats

Gold	$ 265,542
Silver	188,856
Copper	387,523
Lead	741,840
Zinc	996,991
Total	$2,580,752
Sand and Gravel	10,000
Gemstones	2,000
Total	$ 12,000
TOTAL PRODUCTION FOR COUNTY	$2,592,752

PARK (1 & 2) *Fairplay

Area 2,178 square miles

Mines, plants, placers—73 men

Base and precious mineral production from the Hilltop mine in Four Mile Gulch, the Evening Star mine in Mosquito Gulch and the Little Joe open pit property in Buckskin Gulch was noted during the year with placer production from the Penn Mountain Placer west of Fairplay. Other active properties included the Betty, Boss Tunnel, Hilltop, Black Prince, Evening Star, Double Eagle, Russia, Sweet Home and Topper Hill. Peat moss was produced from Crooked Creek north of Fairplay, Furman Ranch, southwest of Jefferson, Roberts Placer west of Como and from the Universal Peat Company pit west of Jefferson. Development work continued at the Boomer beryl mine northwest of Lake George and some ore was milled at the Tarryall Mill by Mineral Concentrates & Chemical Company.

Gold	$ 2,315
Miscellaneous	4,000
Total	$ 6,315
Sand and Gravel	205,043
Stone	2,300
Gemstones	2,100
Peat	34,414
Total	$ 243,857
TOTAL PRODUCTION FOR COUNTY	$ 250,172

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*County Seats

PITKIN (3)

*Aspen

Area 975 square miles
Mines, placers—35 men

Iron ore was shipped from the Pitkin Iron Mine owned by the Pitkin Iron Corporation and operated by Morrison-Knudsen Company, Inc. This property is an open pit operation located 19 miles south of Aspen, near Ashcroft. Development work continued at the Highland Tunnel owned by the Richmond Hill Exploration Company and operated by the Minerals Engineering Company. Project construction included the Chapman Tunnel and South Fork Tunnel above Meredith, a part of the Fryingpan-Arkansas project, which were conducted by Winston, Foley, Frazier-Davis & Hurley. Several old properties in Pitkin County were appraised for future activity during the year.

Miscellaneous	$ 270,000
Sand and Gravel	$ 15,000
Gas	175,572
Coal	4,138,851
Total	$4,314,423
TOTAL PRODUCTION FOR COUNTY	$4,599,423

PROWERS (2)

*Lamar

Area 1,636 square miles
Plant, oil—37 men

The Valley Concrete Company's Lamar sand and gravel pit produced steadily during the year, along with other miscellaneous pits producing gravel for state highway construction. Petroleum production was nominal.

Sand and Gravel	$ 47,230
Petroleum	$ 9,844
TOTAL PRODUCTION FOR COUNTY	$ 57,074

PUEBLO (2)

*Pueblo

Area 2,414 square miles
Mines, plants, project, drilling—118 men

Mineral activity in Pueblo County was conducted at the Chamblin and Rock Creek mines by the Standard Fire Brick Company, at the Chamblin No. 2, northeast of Mustang, by the Denver Brick & Pipe Company, at the Fox No. 1, an open pit mine operated by General Refractories Company, at the Nellie Helen Mine, east of Stone City, operated by Arthur L. Wands, and at the Red Mountain clay mine operated by Walter H. Everhart. Broderick & Gibbons, Certified Concrete

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*County Seats

Company, Fountain Sand & Gravel Company and Jess Hunter operated sand and gravel pits in the county during the year. Highway projects added to county employment.

Miscellaneous	$ 5,000
Sand and Gravel	1,389,318
Clay	644,089
Miscellaneous	6,000
Total	$2,039,407
TOTAL PRODUCTION FOR COUNTY	$2,044,407

RIO BLANCO (3) *Meeker

Area 3,264 square miles
Mine, petroleum—313 men

Rio Blanco County continued to hold first place in petroleum production from Rangely Field. Production from this county has leveled off without much variation from year to year. Exploration and development drilling was average. Rangely Field is unitized and is being operated by the California Company. Three uranium mines in the Uranium Peak area were active for part of the year and highway projects added to county employment. The reported discovery of exceptionally thick oil shale beds in the county was announced by the U. S. Bureau of Mines late in the year.

Miscellaneous	$ 37,499
Sand and Gravel	$ 71,772
Petroleum	51,175,316
Gas	1,315,908
Coal	32,944
Total	$52,524,168
TOTAL PRODUCTION FOR COUNTY	$52,633,439

RIO GRANDE (3) *Del Norte

Area 916 square miles
Mine—14 men

Exploration and development work continued during the year on the Summitville property by the W. S. Moore Company. Various sand and gravel pits were active during the year producing gravel for construction and highway use.

Sand and Gravel	$ 26,600
Gemstones	2,000
Total	$ 28,600
TOTAL PRODUCTION FOR COUNTY	$ 28,600

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*County Seats

ROUTT (3) *Steamboat Springs

Area 2,231 square miles

Mine, placers, projects—84 men

Volcanic cinder production from the McCoy Cinder Pit, located five miles north of McCoy, operated by the McCoy Aggregate Company was steady during the year. Of interest to the mineral industry was development, exploration and metallurgical work at the Ionex No. 1 copper property by the Ionex Engineering & Refining Corporation. This property is located in section 34, township 1 south, range 83 west. Petroleum from the Sage, Curtis, Tow Creek, and Grass Creek fields was nominal during the year.

Sand and Gravel	$ 11,050
Miscellaneous	15,000
Total	$ 26,050
Petroleum	269,937
Gas	38
Coal	7,263,634
Total	$7,533,609
TOTAL PRODUCTION FOR COUNTY	$7,559,659

SAGUACHE (3 & 4) *Saguache

Area 3,146 square miles

Mines—16 men

Mineral operations in Saguache County in 1965 included part year operations of the Rawley No. 2 Mine and the Superior Mill by Rawley Metals, Incorporated. This property is located three miles north of Bonanza. Development and exploration work was done by the Warwick Mining Company at the Warwick Mine and by the Pinnacle Exploration Company on the Pitch Mine located 12 miles north of Sargents. Sand and gravel and gemstone production added to the county economy.

Miscellaneous	$ 12,000
Sand and Gravel	18,000
Gemstones	28,000
Total	$ 46,000
TOTAL PRODUCTION FOR COUNTY	$ 58,000

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*County Seats

SAN JUAN (4) *Silverton

Area 392 square miles
Mines, plants, project—152 men

Mineral activity in San Juan County increased this year over activity in 1964. The Bureau of Mines listed 25 separate properties which were engaged in exploration and development work with production coming from several. The Standard Metals Corporation was the largest county operator with base and precious metal production coming from the American Tunnel (old Sunnyside Mine) and several other properties in the county. Their ore was milled in the Standard Mill (old Shenandoah Mill) located near Silverton. A complete listing of San Juan County operations is given on the back pages of this report.

Gold	$ 74,054
Silver	341,774
Copper	366,143
Lead	1,510,805
Zinc	2,844,554
Miscellaneous	213,479
Total	$5,350,809
Sand and Gravel	$ 4,600
TOTAL PRODUCTION FOR COUNTY	$5,355,409

SAN MIGUEL (4) *Telluride

Area 1,284 square miles
Mines, plants, projects, drilling—751 men

San Miguel County again maintained first place in the State for production of gold, silver, lead, copper and second place for uranium and vanadium. Mining and milling operations of the Idarado Mining Company, located at Pandora, were maintained at a high level during 1965 with a daily tonnage in excess of 1,500 tons per day. Development work was maintained which insures reserves for many years of profitable production. Several properties were opened during the year for exploration purposes. Uranium and vanadium mines located in the Slick Rock, Gypsum Valley and west Bull Canyon areas were active and these carnotite ores were shipped to Uravan, Grand Junction and Utah and New Mexico. The O'Neill group of claims owned by the Dulaney Mining Company was purchased during the year by the Vanadium Corporation of America. Production continued at the Iron Springs Placer property located at Old Ophir.

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*County Seats

Gold	$ 792,888
Silver	512,108
Copper	1,161,294
Lead	2,184,717
Zinc	2,988,327
Uranium	5,000,000
Vanadium	2,975,869
Miscellaneous	480,000
Total	$16,095,203
Sand and Gravel	$ 58,204
TOTAL PRODUCTION FOR COUNTY	$16,153,407

SUMMIT (3) *Breckenridge

Area 616 square miles

Mines, plant, project—353 men

Mineral activity in Summit County in 1965 was less than in the previous year. Activity and some production was noted from the Monte Cristo Mine operated by R. F. Major III. Development activity was carried on part of the year at the Big Four Mine and at the Washington Mine. Sand and gravel was produced at the Buffers Lake Plant operated by C. Ryan and Son. Road projects added to county employment. The Dillion Reservoir was completely filled by mid-year, containing 262,000 acre feet of storage water.

Silver	$ 2,000
Lead	18,457
Zinc	3,932
Miscellaneous	4,000
Total	$ 28,389
Sand and Gravel	56,458
Gemstones	5,000
Total	$ 61,458
TOTAL PRODUCTION FOR COUNTY	$ 89,847

TELLER (2) *Cripple Creek

Area 555 square miles

Mines, plants, quarries, placers—36 men

Of importance to Teller County this year was a sheriff's sale of the property of the Cresson Consolidated Gold Mining & Milling Company, the United States Gold Mines Company, the Elkton Mine, Dr. Jackpot Mining Company, the Empire Lee Mining Company and the New Gold Dollar Mining Company to the Golden Cycle Corporation. Some exploration work was done on the Havilah property by the Havilah Company of Victor and some work started late in the year on the Silver State Mine. Peat moss production was recorded from the Alpen Meadows pit and stone was produced from the Navajo and Pikes Peak quarries.

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*County Seats

Sand and Gravel	$ 39,303
Stone	16,900
Peat	36,000
Gemstones	20,000
Total	$ 112,203
TOTAL PRODUCTION FOR COUNTY	$ 112,203

WASHINGTON (1) *Akron

Area 2,530 square miles

Oil and gas—339 men

Washington County ranked second in petroleum production for the year with a total of 5,381,404 barrels or a decline of 842,445 barrels from 1964. Sand and gravel operations added to county mineral production.

Sand and Gravel	$ 126,845
Petroleum	15,498,444
Gas	196,193
Total	$15,694,637
TOTAL PRODUCTION FOR COUNTY	$15,821,482

WELD (1) *Greeley

Area 4,033 square miles

Plants, oil—75 men

Weld County, in addition to sand and gravel production and some stone from local quarries, produced 1,636,372 barrels of oil, a gain of 34,713 barrels over 1964.

Sand and Gravel	$ 212,319
Stone	7,000
Gemstones	2,500
Total	$ 221,819
Petroleum	4,712,751
Gas	242,016
Coal	3,796,851
Total	$8,751,618
TOTAL PRODUCTION FOR COUNTY	$8,973,437

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*County Seats

Safety Awards

Three bronze plaques were awarded in 1965. The Idarado Mining Company received the award denoting the best interest and progress in promoting Safety for their Idarado Mine and Pandora Mill. The plaque to the large operator who obtained the best safety record was awarded to the Rifle Plant of the Union Carbide Corporation, Mining & Metals Division, and the plaque to the small operator who achieved the same high safety record went to the Fibreboard Paper Products Corporation for their Coaldale Quarry and Plant.

Safety awards for operating in excess of 30,000 man-hours without a lost-time injury were presented to:

Boise Cascade Sand & Gravel Company—Derby Pit

Chevron Oil Company, Western Division—Rangely Unit

The Colorado Fuel & Iron Corporation—Monarch Quarry

W. B. Eckman Mining Company—Deer Shaft

Ideal Cement Company—Boettcher Plant & Quarry

Ideal Cement Company—Portland Plant

The Idealite Company—Rocky Flats Plant

Morrison-Knudsen Company, Inc.—Pitkin Iron Mine

Mountain Fuel Supply Company—Hiawatha Field

Mountain Fuel Supply Company—Powder Wash Field

Union Carbide Corporation, Mining & Metals Division—Paradox 5 & 6

Awards of Merit for cooperative safety endeavor were issued to:

American Metals Climax, Inc.—Urad Mine

Basic Chemical Corporation—Quarry & Mill

Oral Clark—Fawn Springs Group & Obnoxious

Climax Molybdenum Company

Colorado Constructors, Inc.—Highway Projects

Colorado Constructors, Inc.—Glenwood Springs Tunnel

The Colorado Fuel & Iron Corporation—Canon Dolomite Quarry

Colorado School of Mines Research Foundation, Inc.—Anvil Points Oil Shale Research Center

General Chemical Division, Allied Chemical Corporation—Burlington Mine

General Chemical Division, Allied Chemical Corporation—Denver Plant

General Chemical Division, Allied Chemical Corporation—Valmont Mill

Peter Kiewit Sons' Company—Denver District

Lee Sand & Gravel Company—Lee Pit

Domenic Leone Construction Company, Inc.—Highway Construction

Lockheed Shipbuilding & Construction Company—Ruedi Dam

Matterhorn Mining & Development Company—Carnation Mine

Mountain Fuel Supply Company—Sugar Loaf Field

The New Jersey Zinc Company—Eagle Mine & Mill

Rico Argentine Mining Company—Mountain Springs & Argentine Mine

John I. Schumacher—Sego Lily Lou Mine

Silver Hat Mining, Inc.—San Bernardo Mine & Garibaldi Tunnel

Smith Drilling Company—Drilling Operations

Lowell Staats—Hummer & Mill #2 Mine

Sterling Sand & Gravel Company—Sterling Plant

Transit Mix Concrete Company—Sand & Gravel Pits

Union Carbide Corporation, Mining & Metals Division—Deremo Mine

Union Carbide Corporation, Mining & Metals Division—Eula Belle Mine

Union Carbide Corporation, Mining & Metals Division—Grand Junction Facilities

Union Carbide Corporation, Mining & Metals Division—Rifle Mine

Union Carbide Corporation, Mining & Metals Division—Uravan Plant

Winston, Foley, Frazier-Davis & Hurley—Fryingpan-Arkansas Project

Lost-Time Injury Statistics—Mineral Industry

INJURIES

Colorado's mineral industry, exclusive of coal and State and Federal projects, had 15 less lost-time injuries than in 1964. Fatal accidents were considerably lower even though near a million more man-hours were worked. Two fatal accidents underground were caused by falling rock and one by a runaway ore chute. One fatal in the sand and gravel industry was caused by drowning. Accident frequency was reduced from 18.9 in 1964 to 18.0 in 1965. Likewise severity rates were reduced from 2,828. to 1,223. which brings Colorado well below the national average. The mining industry and Colorado Bureau of Mines inspectors are to be congratulated on their never-ending efforts to hold injuries to an absolute minimum.

State and Federal projects in Colorado were not so fortunate in 1965. Ten fatal accidents and an increase of 88 lost-time injuries raised the frequency rate on projects to 35.2 over 24.6 in 1964. The fact that most of the lost-time injuries were of a minor nature lowered the severity rate to 1,205. against 2,443. in 1964. This very undesirable record can be attributed to high speed completion date demands on contractors not familiar with rugged Colorado topography and high altitude winter operations. Many of the contractors were working in Colorado for the first time and were not familiar with necessary safety precautions.

All of the above fatal accidents and all serious accidents were promptly investigated by Bureau of Mines personnel and complete reports were submitted. Reports of conditions surrounding these accidents and their causes were promptly submitted to all inspectors which enabled them to correct any similar situations, thus preventing a reoccurrence of the same accident.

Specific cause, type, nature and site of all lost-time injuries are listed in the following tables as are the locations, and number of injuries by district and operation.

Lost-Time Injury Statistics—Mineral Industry (Continued)

SUMMARY OF INJURIES

	Total Man-Hours	Fatal Injuries	Lost-Time Injuries	Number of Days Lost	Frequency Rate Per One Million Man-Hours	Severity Rate Per One Million Man-Hours
Mines, Underground	10,432,800	2	384	24,777	36.8	2,375.
Mines, Surface	3,321,600	0	39	687	11.7	206.
Mills-Plants-Smelters	8,976,000	0	34	499	3.7	56.
Quarries-Pits	1,886,400	2	24	12,190	12.7	6,463.
Oil and Gas Industry	7,789,400	0	103	1,746	13.2	224.
Totals	32,406,200	4	584	39,899	18.0	1,233.
State and Federal Projects	7,396,800	12	261	75,841	35.2	1,025.

This table includes the loss of 24,000 days in the Mineral Industry due to 4 fatalities and 5,315 days due to 14 permanent partial disabilities.

$$\text{Frequency Rate} = \frac{\text{Number of Injuries x 1,000,000}}{\text{Number of Man-Hours of Exposure}}$$

$$\text{Severity Rate} = \frac{\text{Total Time Charges in Days x 1,000,000}}{\text{Number of Man-Hours of Exposure}}$$

Injuries by Districts

	Fatals	Mines		Mills—Plants —Smelters	Quarries —Pits	Projects	Oil Wells	Totals
		Underground	Surface					
District 1	5	25	9	2	14	40	43	138
District 2	1	7	0	8	8	28	4	56
District 3	7	149	12	9	0	149	51	377
District 4	3	201	18	15	0	32	5	274
Totals	16	382	39	34	22	249	103	845

LOST TIME INJURY STATISTICS — MINERAL INDUSTRY (Continued)

	Mines				Mills—Plants										
AGENCY CAUSING INJURY	Underground		Surface		Smelters		Quarries		Projects		Oil Wells		Grand Totals		
(I = Injuries; F = Fatalities)	I	F	I	F	I	F	I	F	I	F	I	F	I	F	T
Bars-Bins-Chutes	8								3		1		12		12
Cables-Hose-Ropes	21								14		2		37		37
Cars-Motors-Vehicles	64		6		1				26	2	7		104	2	106
Chains-Gears-Sprockets	3										2		5		5
Belts-Conveyors-Pulleys					1				4	1			5	1	6
Containers	1								1				2		2
Chemicals					2				1		2		5		5
Derricks-Headframes											4		4		4
Doors-Windows-Gates	2								1				3		3
Drills-Drilling Equipment	14		2				1		7		16		40		40
Dust and Particles	3		2		1				3		2		11		11
Explosives-Loading, Firing	3		1										4		4
Electricity-Elec. Equipment	2		1		1		1		1				6		6
Falls-Floor-Ice-Snow	16		2		2		1		16	2	7		44	2	46
Falling or Flying Objects	6		1						4		2		13		13
Flames-Fire-Hot Substances					1				2				3		3
Hoists-Hoisting Apparatus	7								1		2		10		10
Ladders-Manways	9				1		1		2		3		16		16
Machinery-Tools	55		8		10		7		35	1	21		136	1	137
Materials	10		3		7				6		4		30		30
Metal Objects-Tongs	20		5		1				17		20		63		63
Platforms-Staging-Scaffolds	7				1				4		5		17		17
Premature or Delayed Blasts	5												5		5
Rock-Ore-Ground	87	2	3		2		10	1	60	6	1		163	9	172
Screens-Tracks	12				1				13				26		26
Shovels, Power			2						3				5		5
Tanks-Atmosphere					1				7		2		10		10
Timber-Lumber-Poles	26		3		1		1		14				45		45
Unclassified-Insufficient Data	1							1*	4				5	1	6
Totals	382	2	39		34		22	2	249	12	103		829	16	845

*Drowning

LOST TIME INJURY STATISTICS — MINERAL INDUSTRY (Continued)

	Mines				Mills—Plants						Oil				
TYPE OF INJURY	Underground		Surface		Smelters		Quarries		Projects		Wells		Grand Totals		
(I=Injuries; F=Fatalities)	I	F	I	F	I	F	I	F	I	F	I	F	I	F	T
Burns-Shock	1		1		3		1		3	1	1		10	1	11
Caught in or Between	68		7		5		2		27	2	24		133	2	135
Fall on Same Level	11		2				2		19		4		38		38
Fall on Different Level	33		1		1		1		16	1	10		62	1	63
Handling	68	1	11		9		1		33		13		135	1	136
Inhalation-Suffocation		1							5	2			5	3	8
Striking Against-Struck By	158	2	13		10		9	1	110	6	43		343	9	352
Slip-Stepping On	42		5		6		6		41		8		108		108
Unclassified-Insufficient Data	1							1*	4				5	1	6
Totals	382	4	40		34		22	2	258	12	103		839	18	857
NATURE OF INJURY															
Foreign Bodies	16		4		2				9		5		36		36
Cuts-Bruises-Lacerations-Punctures	172	1	15		9		10		106	1	49		361	2	363
Strains-Sprains-Dislocations	123	1	13		13		7		81		30		267	1	268
Hernia-Respiratory		1	1		1		1	1*	8	4			11	6	17
Fractures	71		5		4		5	1	57	5	26		168	6	174
Amputations	10		2		1				3	2	2		18	2	20
Burns-Scalds-Shock	1		2		5		1		4	1	1		14	1	15
Occupational Disease	8												8		8
Nature Unknown	2						1		2				5		5
Totals	403	3	42		35		25	2	270	13	113		888	18	906
SITE OF INJURY															
Eyes	16		4		3				9		4		36		36
Head-Face-Neck	51		1		1		2	1	21	4	11		87	5	92
Trunk	145	1	14		15		5		103	3	26		308	4	312
Upper Extremities	76	1	12		4		7		48	2	39		186	3	189
Lower Extremities	135		11		10		10		82	1	25		273	1	274
General	2	1			1			1*	2	7	2		7	9	16
Insufficient Data	1								1				2		2
Totals	426	3	42		34		24	2	266	17	107		899	22	921

*Drowning

Lost-Time Injury Statistics—Mineral Industry (Continued)

FATAL INJURIES

Date	Name	Age	Employed By	County	Cause of Injury
Mines, Underground					
7- 5-65	Henery Ramos	18	General Refractories Company	Pueblo	Working as a miner at the Fox No. 1 Mine. Was hit by falling ground and received a fractured skull which resulted in instant death. Improper and insufficient timber support and inexperience of the miner.
10-21-65	Onilee Clenney	29	D. P. Mining Company	Mesa	Working as a miner at the Hubbard Drift. While preparing a slusher setup Clenney was hit by a falling clay slab and was killed instantly. Failure by both supervision and employee to check the back before work started.
11-10-65	Tony Lavato	27	Standard Metals, Inc.	San Juan	Working as a motorman at the American Tunnel. Loading a muck car from an ore pass on the main level. Air cylinder controls for the chute gate were located at the side of the chute. A hangup broke loose, tearing out chute control equipment and releasing several hundred tons of muck which covered Lavato and caused death by suffocation. Equipment failure and improper location of controls.
Plants					
9-22-65	David Eugene Stahn	21	Cooley Gravel Company	Arapahoe	Working as an oiler at the Littleton Plant. Working with two other workmen in a 12-foot boat freeing cable. The weight of the cable, which was resting across the top of the boat, caused the boat to sink. Stahn drowned before he could be rescued. Lack of safety devices and carelessness.
Projects					
1-31-65	David L. Hemphill	32	Berco, Inc.	Eagle	Working as a miner on Tunnel No. 3, Homestake Project. Was covered by a snow slide near the portal of the tunnel which resulted in instant death from suffocation and internal injuries. Improper evaluation of safety conditions at working area.

Lost-Time Injury Statistics—Mineral Industry (Continued)

Date	Name	Age	Employed By	County	Cause of Injury
3-27-65	Robert D. Bashor	39	Gibson-Roberts, Inc.	Chaffee	Working as a laborer at the Goddard Tunnel. Apparently cleaning a return roller under a conveyor belt when both of his hands were caught between the roller and the belt, pulling his arms up to his head into the pinch point. His head went below the roller idler which resulted in a broken neck and instant death. Violation of a safety rule and carelessness.
4- 1-65	Marion L. Hamilton	36	Johnson, M-K	Montrose	Working as a high scaler above the Morrow Point Dam site. Knocked from a ledge by a small snow slide and fell 350 feet to his death. Slide came from an area not previously bothered by slides. All safety precautions were being used. Cause unpredicted.
5-13-65	Robert D. Cole Carl Roy Snodgrass Phil P. Kalinowski	41 60 53	Jones-Harrison Joint Venture	Clear Creek	Working as a carpenter and cement finishers, respectively, on the Cabin Creek Project. Men were crushed to death by a rock slide that originated on the mountain side above and covered the portal of the bypass tunnel intake end. The slide gave no warning but was due to side hill excavation, blasting and severe weather conditions.
6- 7-65	Harold Albert Blomquist	26	Boyles Brothers Drilling Co.	Eagle	Working as a brakeman in the Missouri Creek Tunnel. Was crushed to death by a loaded ore car that was derailed and tipped when a car door on the opposite side came loose and dug into the rib and floor. Blomquist was crushed between the derailed car and the rib. Faulty equipment.
8- 9-65	John G. Graham	53	Lockheed Shipbuilding and Construction Company	Eagle	Working as an oiler on the Ruedi Dam Project. Was refilling gasoline tanks on pump motors without turning off the motors. Gasoline ignited from an exhaust pipe which was four inches from the fill spout and tank, causing Graham to spill gasoline on himself and inflicting third degree burns which resulted in his death on August 24. Violation of safety rules and carelessness.
10- 2-65	Orley L. Blackburn	27	Morrison-Knudsen Company, Inc.	Eagle	A Euclid driver at the Homestake Dam Project. Backed his loaded Euclid too near the edge of a newly filled ramp and the vehicle turned over and slid down into mud and water forty feet below. Blackburn was unable to get out of the cab and suffocated or drowned when the cab was submerged. Traveling too near a soft shoulder. Carelessness and violation of instructions.

Lost-Time Injury Statistics—Mineral Industry (Continued)

Date	Name	Age	Employed By	County	Cause of Injury
11- 2-65	Max McCoy Kelly	30	F. H. Linneman, Inc.	Douglas	Working as a miner on the Rampart Range No. 2 East Portal Tunnel. Was in the act of placing a post under unstable ground when a one-ton slab fell from the rib onto a pipe line under which Kelly was working, resulting in a crushed chest with internal injuries and instant death. Inadequate ground support. Improper evaluation of the hazard.
11-20-65	Edwin H. Allbrandt	53	Pioneer Construction Company	Eagle	A truck driver on the Bond State Bridge Project. Was standing in the road in a cut area when he was hit in the head by a large rock falling from above. Instant death. No hard hat in a hard hat area. Safety precautions not observed.
12- 3-65	Billy S. Piedmont	26	Morrison-Knudsen Company, Inc.	Eagle	An engineer on the Homestake Dam Project. Was lying under a pickup truck for protection from a blast 1000 feet away when a 35-pound rock blew over and landed in the truck. The sudden impact compressed the truck springs, causing the truck to lower and crush Piedmont's head between the truck and the ground. Instant death. Improper evaluation of dynamite charge.

Men Employed

Mineral industry employment in Colorado remained substantially unchanged in 1965 as compared to 1964. The number of men employed in mines showed an increase of 344 while the number of men employed in mills and plants was 689 less than in 1964. Increased employment was recorded in oil and gas well drilling, quarries and mines, while decreased employment was indicated in plants, placers and projects. These employment figures reflect direct employment and do not include the many people who are directly dependent on the industry.

	Mines		Mills, Plants Smelters		Quarries & Pits		Placers		Projects	Oil Wells	Totals
	No.	Men	No.	Men	No.	Men	No.	Men	Men	Men	Men
District 1	89	488	36	557	25	457	24	59	304	1,517	3,382
District 2	40	114	21	227	15	108	1	2	430	354	1,235
District 3	26	2,374	9	1,708	7	72	2	19	1,348	389	5,910
District 4	279	2,212	26	1,248	2	7	9	62	1,000	981	5,510
Totals	434	5,188	92	3,740	49	644	36	142	3,082	3,241	16,037

TOTAL MEN EMPLOYED

STATE LIBRARY DENVER, COLO

	Underground	Surface	Oil Wells	Totals
District 1	398	1,467	1,517	3,382
District 2	127	754	354	1,235
District 3	2,269	3,252	389	5,910
District 4	1,553	2,976	981	5,510
Totals	4,347	8,449	3,241	16,037

MEN EMPLOYED IN

Gold, Silver Copper, Lead, Zinc	Molybdenum	Uranium	Petroleum	Other	Totals
1,210	2,400	4,800	3,241	4,386	16,037

DIVISION OF OPERATIONS

Base and Precious Metal Mines	105
Uranium Mines	270
Other Mining Operations	61
Projects	56
Oil and Gas Wells	426

FIRST AID TRAINING

First aid training was given to 101 men in the mineral industry of Colorado by the Colorado Bureau of Mines inspectors, using the standard U. S. Bureau of Mines training course.

Inspections

The following table lists the number of complete safety inspections made during the year at mineral properties in each district of the State. These figures do not include dust and gas surveys and sampling at various properties and do not include return visits to specific properties to determine compliance with previously given orders to correct unsafe conditions. All mineral properties were inspected at least once during the year and those requiring more frequent surveillance were inspected as many times as was necessary and time permitted.

INSPECTIONS

Made By

	District 1 Blake	District 2 Keating	District 3 Doyle	District 4 Ray	Totals
January	28	29	13	57	127
February	8	15	9	34	66
March	11	25	27	40	103
April	22	19	13	63	117
May	22	23	22	44	111
June	24	29	23	75	151
July	15	18	27	51	111
August	31	30	23	64	148
September	35	18	29	54	136
October	18	18	14	33	83
November	18	28	10	58	114
December	32	17		33	82
Totals	264	269	210	606	1,349

		Mills, Plants,	Pits &	Placers &	Projects			Oil & Gas Wells,	
	Mines	Smelters	Quarries	Bogs	Road	Tunnel	Dam	Plants	Totals
District 1	65	50	58	9	5	32	10	35	264
District 2	50	68	105	1	13	13	1	18	269
District 3	51	22	11	1	13	50	19	43	210
District 4	479	50	8	7	19	7	14	22	606
Totals	645	190	182	18	50	102	44	118	1,349

Information Reports

The following listed number of Information Reports on operating properties were submitted to the Bureau of Mines office and were added to individual property files. These files contain descriptive information on each mine in the State on a year to year basis and are used extensively by interested parties to determine the extent of mining operations. Many files contain a history of individual operations from the time the property was first worked up to the present date. This information saves many thousands of dollars in evaluating and developing long-time idle mines.

INFORMATION REPORTS

Made By

	District 1 Blake	District 2 Keating	District 3 Doyle	District 4 Ray	Totals
January	8	0	2	59	69
February	2	0	0	21	23
March	1	5	0	26	32
April	3	4	0	46	53
May	1	7	0	22	30
June	3	10	0	41	54
July	2	10	0	29	41
August	28	14	0	34	76
September	8	6	2	30	46
October	10	7	4	18	39
November	38	15	13	37	103
December	73	13	41	33	160
Totals	177	91	62	396	726

					Projects				
	Mines	Mills, Plants, Smelters	Pits & Quarries	Placers & Bogs	Road	Tunnel	Dam	Oil & Gas Wells, Plants	Totals
District 1	67	28	53	26		1	2		177
District 2	17	19	48	1		3	1	2	91
District 3	25	9	6	3	3	11	5		62
District 4	342	23	3	9	9	4	3	3	396
Totals	451	79	110	39	12	19	11	5	726

Radon Daughter Control Program

The year 1965 showed a substantial increase over previous years in the number of mines operating at an average radon daughter concentration of less than 3.0 WL at any one time. On December 31, 1965, 92½ percent of the operating uranium mines, with 89½ percent of the underground uranium mines, averaged less than 3.0 WL whereas, on December 31, 1964, 84 percent of the uranium mines, with 85 percent of the underground uranium mines, averaged less than 3.0 WL. Out of a total of 2,282 samples taken during 1965, the median was 1.9 WL. This is 0.5 WL less than the estimated median for 1964 of 2.4 WL. These figures indicate that the Radon Daughter Control Program as a whole is becoming more effective in the control of this airborne radiation hazard in Colorado's uranium mines. However, because of the ever changing situations and conditions inherent in any mining operation, continuous periodic evaluation of this hazard remains necessary if the hazard is to be controlled. Detailed information concerning the program is tabulated below.

During 1965 the Bureau of Mines moved its Field Office from Naturita to Room 311, Petroleum Building, Grand Junction in order to better serve the mineral industries of Colorado. Also during the year, the Bureau of Mines continued to receive the results of radon daughter sampling conducted by mine operators in the State. The instrument calibration service and facilities at the Field Office remained available to, and were used by mine operators and regulatory agencies within Colorado as well as those in neighboring states. The continued cooperation received by the Bureau of Mines in carrying out this program is gratefully acknowledged.

David R. Cole
Senior Inspector

DISTRIBUTION OF MINES BY AVERAGE RADON DAUGHTER CONCENTRATION

(1.0 WL represents 300 micromicrocuries per liter of air)

Range	Number of Mines	Per Cent	Cumulative Per Cent
—1.0 WL or Less	71	52 %	52 %
+1.0 WL through 3.0 WL	55	40½	92½
+3.0 WL through 5.0 WL	8	6	98½
+5.0 WL through 10.0 WL	1	¾	99¼
+10.0 WL and Over	1	¾	100
Total	136	100 %	

COMPARISON OF STATUS OF MINES

Range	12-31-61	Per Cent of Operating Mines 12-31-62	12-31-63	12-31-64	12-31-65
—1.0 WL or Less	45 %	52%	40½%	43%	52 %
+1.0 WL through 3.0 WL	27½	38	47	41	40½
+3.0 WL through 5.0 WL					6
+5.0 WL through 10.0 WL					¾
+3.0 WL through 10.0 WL	23	10	12½	16	
+10.0 WL and Over	4½	0	0	0	¾
Total	100 %	100%	100 %	100%	100 %

SAMPLE AND INSPECTION STATISTICS

Inspector	Number of Samples	Number of Inspections
Thomas High	525	223
William Horn	348	158
Bernard Javernick	917	277
Calvin Warnica	485	185
Other	7	4
Total	2,282	847

CORRECTIVE ORDERS ISSUED FOR VENTILATION

(District 4—Uranium Mines)

General	125
Removal of Men from Area	40
Compliance by Specified Date	1
Total	166

EQUIPMENT CALIBRATION

Alpha Survey Meters	10
Vacuum Pumps	6
Number of Separate Mines Sampled	424
Number of Men Catalogued for Exposure	4,387

Dust and Gas Control Program

During 1965 the full-time services of the Dust & Gas Inspector continued to be used in order to maintain a periodic evaluation of the levels of dust exposure in Colorado's mineral industry and initiate corrective action when and where it was deemed necessary. In conjunction with the dust monitoring, evaluation of the composition of mine atmospheres and gas hazards was conducted through the use of direct reading field instruments. The field and laboratory work in connection with this program is carried out from the Grand Junction Field Office of the Colorado Bureau of Mines.

During the year 145 midget impinger samples were taken for dust concentration, the median being 1.4 mppcf. A total of 65 rafter samples were taken for free silica analysis, the median for these samples being 66.96% SiO_2. Based on the "Threshold Limit Values for 1961" of the American Conference of Governmental Industrial Hygienists, 15 per cent of the midget impinger samples were above tolerance. In all cases of working areas above tolerance, the exposure was either of a short-term temporary nature or corrective action was initiated.

The services of the Occupational Health Section of the Colorado State Department of Public Health in making the free silica determinations and the cooperation of the operators and employees in Colorado's mineral industry are gratefully acknowledged.

David R. Cole
Senior Inspector

DISTRIBUTION OF DUST SAMPLES BY CONCENTRATION AND FREE SILICA CONTENT

	Free Silica Content							
Concentration	0% thru 5%		+5% thru 50%		+50%		Total	
(mppcf)	No.	%	No.	%	No.	%	No.	%
0 thru 5	0	0	33	23	80	55	113	78
+5 thru 20	0	0	10	7	12	8	22	15
+20 thru 50	0	0	3	2	5	3½	8	5½
+50	0	0	0	0	2	1½	2	1½
Total	0	0	46	32	99	68	145	100

UNDERGROUND DUST CONCENTRATION BY ACTIVITY

	Distribution of Samples (Dust concentration in mppcf)				
Activity	0 — 5	+5 — 20	+20 — 50	+50	Total
Timbering, Rustling Material, Cleanup	7				7
Mantrips, Lunch, Doghouses, Stations, Shop Areas	2				2
Tramming and Haulageways	3				3
Machine and Hand Mucking	35	5		2	42
Barring Down and Setting Up	5	1			6
Between Operations	6				6
Drilling, Blowing and Loading Holes	27	4	3		34
Loading and Dumping Cars	3				3
Slushing and Breaking Boulders	11	4			15
Total	99	14	3	2	118

MILL, PLANT & SURFACE DUST CONCENTRATION BY ACTIVITY

	Distribution of Samples (Dust concentration in mppcf)				
Activity	0 — 5	+5 — 20	+20 — 50	+50	Total
Sample Preparation	4	2			6
Crushing	6	4	4		14
Grinding		1			1
Leaching and Flotation	2				2
Drying, Kiln and Filter Areas	1				1
Storage Areas and Loading	1	1	1		3
Total	15	8	5		27

DISTRIBUTION OF RAFTER SAMPLES BY TYPE OF OPERATION

		Per Cent Free Silica		
Type of Operation	Number of Samples	High	Low	Median
Mines, Uranium-Vanadium (Underground)	44	81.2	8.6	71.3
Mines, Metal (Underground)	15	66.4	1.6	39.2
Mines, Nonmetal (Underground)	1	12.1	12.1	12.1
Plants & Mills, Other than Uranium & Vanadium	3	41.4	24.5	30.5
Projects, Underground	1	36.70	36.70	36.70
Projects, Surface	1	0.2	0.2	0.2
Total Operations	65	81.2	0.2	66.69

Mineral Operations by County in Colorado

ADAMS COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Arvada Plant	Arvada	Cooley Gravel Co., 5631 Tennyson, Arvada	Gold, Sand, Gravel	Plant
Dahlia Plant	Denver	Cooley Gravel Co., 5631 Tennyson, Arvada	Sand, Gravel	Plant
Inland	Commerce City	Boise Cascade Sand & Gravel Co., 7620 Madison, Commerce City	Gold, Sand, Gravel	Plant
Mill at Pit #10	Denver	Brannan Sand & Gravel Co., 4800 Brighton Blvd., Denver	Gold, Sand, Gravel	Pit & Plant
Pit #1	Denver	Brannan Sand & Gravel Co., 4800 Brighton Blvd., Denver	Gold, Sand, Gravel	Pit & Plant
Pit #7	Denver	Brannan Sand & Gravel Co., 4800 Brighton Blvd., Denver	Gold, Sand, Gravel	Pit & Plant

ARAPAHOE COUNTY

Englewood Plant	Denver	Cooley Gravel Co., 5631 Tennyson, Arvada	Sand, Gravel	Plant
Littleton Plant	Denver	Cooley Gravel Co., 5631 Tennyson, Arvada	Sand, Gravel	Plant

ARCHULETA COUNTY

Blanco	Pagosa Springs	Colorado-Horner Construction Co., 380 W. 62nd, Denver		Water Tunnel
Navajo Tunnel	Chromo	Nielson, Inc., Box 684, Dolores		Water Diversion Tunnel

BACA COUNTY

F & W	Campo	F & W Concrete & Construction Co., Box 717, Boise City, Oklahoma	Sand, Gravel	Pit & Plant

BOULDER COUNTY

Beaver Lake	Boulder	Beaver Lake Peat Co., 2902 6th St., Boulder	Peat	Peat Bog
Brodies St. Vrain	Lyons	Sterling Stone Co., Box 58, Lyons	Stone	Quarry
Burlington	Jamestown	General Chemical Div., Allied Chemical Corp., Box 228, Boulder	Fluorspar	Mine
Eldora	Eldora	D & V Construction, Inc., 1325 W. Quincy Ave., Englewood	Sand, Gravel	Pit & Plant
Escanaba	Grays Gulch	Eddie Jeski & Michael Wendell, Jamestown	Lead	Mine
Eureka	Boulder	Canyon Mining Co., 480 S. Lashley Lane, Boulder	Tungsten	Mine
Farmer Boy	Jamestown	Morris Sydow, 140 23rd Ave., Greeley	Gold, Silver	Mine
Green Thumb	Nederland	Omar Beagle et al, 2424 W. Yale, Englewood	Peat	Peat Bog

BOULDER COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Harms	Ward	Scruggs Peat Moss Co., 4400 Broadway, Boulder	Peat	Peat Bog
Ingersoll	Jamestown	University of Colorado, Boulder	Stone	Quarry
J Albine	Sugar Loaf	J Albine Mining, Co., Box 443, Nederland	Gold, Silver, Lead, Zinc	Mine
Jacobson & Lyons	Lyons	Jacobson & Lyons Stone Co., Inc., Box 65, Lyons	Stone	Quarry
King Mountain	Lyons	King Mountain Rock Co., Box 7, Lyons	Stone	Quarry & Plant
Lake Eldora	Nederland	McCoy & Jensen Nursery Co., 9800 Morrison Rd., Morrison	Peat	Peat Bog
Landau (McCall Quarries)	Lyons	Dale Hotchkiss, Box 364, Lyons Ray Garver, Box 277, Lyons Jay Morgan, Lyons Lloyd Trevarton, 2252 Goss, Boulder Billie Ray Booth, Lyons Robert Phillips, 234 Pratt, Longmont	Stone	Quarry
Loukonen Brothers	Lyons	Loukonen Brothers Stone Co., Box 333, Lyons	Stone	Quarry
Marion	Boulder	Lenway Mining & Development Corp., 1061 Grant St., Boulder	Molybdenum, Tin, Rare Earths	Mill
Noland	Beach Hill	Sterling Stone Co., Box 58, Lyons	Stone	Quarry
Pits #1, #2	Eldorado Springs	Kaiser Refractory Corp., 3033 Blake St., Denver Eldorado Clay Co., Rt. 1, Box 759, Golden	Clay	Mine
Root Cellar	White Rocks	Energy Resources Technology Land, Inc., Box 1256, Boulder		Root Cellar
Silver Lake Dam	Nederland	D & V Construction Co., Inc., 1325 W. Quincy, Englewood		Dam
Tip Top	Nederland	Joe Starnes, 7903 Wyandot, Denver	Silver	Mine
Tungsten	Nederland	Blue Bird Mining Co., 630 Washington, Denver	Silver, Lead, Zinc	Mill
Valmont	Valmont	General Chemical Div., Allied Chemical Corp., Box 228, Boulder	Fluorspar	Mill

CHAFFEE COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Alpine No. 1	St. Elmo	Joe Lackey, Box 331, Florence	Granite	Quarry
Calcium Mill	Salida	Alpine Industries, Inc., Box 626, Salida	Granite, Marble	Plant
Goddard Tunnel	Trout Creek Pass	Gibson-Roberts, Inc., Box 786, Buena Vista		Tunnel
Homestake Conduit	Trout Creek Pass	Metropolitan-Gill-Tecon, Box 00, Buena Vista		Tunnel
Homestake Pumping Station	Granite	Carrothers Construction Co., Box 350, Paola, Kansas		Pumping Station
Josephine	Buena Vista	Joe Lackey, Box 331, Florence	Marble	Quarry
Lost Canyon Placer	Granite	Gold Bar Resources, Inc., 1405 S. Main, Salt Lake City, Utah	Gold	Placer
Monarch Lime Quarry & Plant	Garfield	Colorado Fuel & Iron Corp., Box 489, Salida	Limestone	Quarry & Plant
Shannon Last Chance	St. Elmo	L & L Trucking Co., Box 331, Florence	Granite	Quarry

CLEAR CREEK COUNTY

Alma Lincoln	Idaho Springs	Curtis K. Lukow, Box 236, Idaho Springs	Tourist	Mine
Bald Eagle	Idaho Springs	B & E Mining Co., Box 622, Idaho Springs	Gold, Silver, Copper, Lead, Zinc	Mine
Banner (Franks)	Idaho Springs	Western Placers Co., Inc., 6300 Southwood Dr., Littleton	Gold	Placer
Black Eagle	Idaho Springs	Nye Metals, Inc., Black Hawk Jack Pine Mining Co., Idaho Springs	Gold, Silver, Copper, Lead, Molybdenum	Mill
Brownsville Mill	Silver Plume	Cotter Corporation, Box 751, Canon City	Gold, Silver, Copper, Lead, Zinc	Mill
Cabin Creek	Georgetown	Jones-Harrison Joint Venture, Box 218, Georgetown		Dam & Tunnel
Cabin Creek, Phase 2	Georgetown	Eby Construction Co., Inc., 2901 S. Santa Fe, Littleton		Dam & Tunnel
Capital Prize	Georgetown	Oxley Petroleum Co., Box 293, Georgetown	Gold, Silver, Copper, Lead, Zinc	Mine
Centennial Mine	Idaho Springs	Anthony V. Medonna, 1899 Allison, Lakewood	Gold, Silver	Mine
Charter Oak	Cascade Gulch	Walter R. Smith, Box 373, Henderson, Texas	Silver	Mine
Clear Creek	Idaho Springs	Miller, Mackey, Roller & Carter, 15 S. Yukon, Lakewood	Gold	Placer
Dixie	Chicago Creek	Westex Mining & Development Co., Box 667, Idaho Springs	Gold, Silver	Mine
Empire Plant	Empire	Mountain Aggregates, Inc., Box H, Empire	Sand, Gravel	Pit & Plant
Forge Hill	Virginia Canyon	Silver Wreath Consolidated Mines Co., Rt. 3, Box 35, Golden	Gold, Silver, Copper, Lead, Zinc	Mine
Fourth of July	Idaho Springs	Mineral Enterprises, Inc., Box 1141, Idaho Springs	Gold, Silver, Copper, Lead, Zinc	Mine
Franklin	Gilson Gulch	Franklin Silver Age Mining Co., c/o A. E. Burns, Wilson, Kansas	Gold, Silver, Copper, Lead, Zinc	Mine
Freighters Friend	Idaho Springs	J. I. L. Mining Co., 4825 Eaton St., Denver	Gold, Silver, Copper, Lead, Zinc	Mine
Gold Belt Tunnel	Silver Plume	Silver Lake, Inc., 1306 8th St., Golden	Gold, Silver, Copper, Lead, Zinc	Mine
Golden Rule	Virginia Canyon	Golden Rule Mining Co., 7235 W. 27th, Denver	Gold	Mine
Hall Tunnel	Chicago Creek	Cascade Mining Corp., Box 1108, Idaho Springs	Gold, Silver, Copper, Lead, Zinc	Mine
Lady Adelaide	Empire	B. V. Mines, Box 14, Lawson	Silver, Lead	Mine
M and E	Chicago Creek	Harold S. Eisley, 1129 Ridge Rd., Littleton	Gold, Silver, Lead, Zinc	Mine
Mendota	Silver Plume	Cotter Corporation, Box 751, Canon City	Gold, Silver, Copper, Lead, Zinc	Mine
Miami Tunnel & Edgar	Idaho Springs	Colorado School of Mines, Mining Engineering Department, Golden	Instruction	Mine

CLEAR CREEK COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Mix	Idaho Springs	Mix Mining Co., Box 215, Idaho Springs	Gold, Silver, Copper, Lead, Zinc	Mine
Poor Man	Idaho Springs	T. R. Bowland, Box 52, Idaho Springs	Silver, Lead	Mine
Rusty Shovel	Idaho Springs	Elmer Anderson, 322 S. Emerson, Denver	Gold, Silver, Copper, Lead, Zinc	Mine & Mill
Santa Fe	Pewabic Mountain	Crest Mining & Milling Co., Box 141, Black Hawk	Gold, Silver	Mine
Silver King (Terrible)	Silver Plume	Sybil Buffum, 811 23rd St., Golden	Tourist	Mine
Silver Spruce	Idaho Springs	O'Malley Mines, Inc., Box 727, Idaho Springs Silver Spruce Engineering Co., 131 W. 10th Ave., Denver	Base Concentrates	Mill
Silver Wind #2, #3	Bakersville	Devi DeNeir, 7992 Grace Court, Denver	Gold, Silver, Copper, Lead, Zinc	Mine & Mill
Urad	Berthoud Falls	Urad Mines, Box H, Empire	Molybdenum	Mine

CONEJOS COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Antonito	Antonito	Great Lakes Carbon Corp., Box 308, Antonito	Perlite	Plant

COSTILLA COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Mesita Hill	Mesita	Colorado Aggregate, Inc., Mesita	Volcanic Ash	Plant

CUSTER COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Abbit	Rosita	Schmidt Construction Co., 1003 E 2nd, Florence	Rancite	Quarry
Lady Franklin	Silver Cliff	Cotter Corporation, Box 751, Canon City	Silver, Lead	Mine
Rosita	Rosita	Persolite Products, Inc., Box 105, Florence	Perlite	Quarry
Silver Cliff	Silver Cliff	Rimlite, Inc., Box 282, Glenwood Springs	Vermiculite	Plant
Williams	Rosita	Cotter Corporation, Box 751, Canon City	Silver, Copper	Mine

DELTA COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Delta Sand & Gravel	Delta	Delta Sand & Gravel Co., Box 103, Delta	Sand, Gravel	Plant

DENVER COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Denver Works	Denver	General Chemical Div., Allied Chemical Corp., Box 9306, S. Denver Station, Denver	Chemicals	Plant
Globe Plant	Denver	American Smelting & Refining Co., 495 E. 51st Ave., Denver	Cadmium	Plant

DOLORES COUNTY

California	Rico	Williams Mining Partnership, Box 305, Naturita	Gold, Silver, Copper, Lead, Zinc	Mine
Fritz & Erickson	Dove Creek	Fritz-Erickson Drilling Co., Box 365, Dove Creek		Drilling
Mountain Springs	Rico	Rico Argentine Mining Co., Box 158, Rico	Gold, Silver, Copper, Lead, Zinc	Mine
Payroll	Rico	Mountain States Mining Co., Cortez	Gold, Silver, Copper, Lead, Zinc	Mine
Rico Mill	Rico	Rico Argentine Mining Co., Box 158, Rico	Gold, Silver, Copper, Lead, Zinc, Iron	Mill
St. Louis (Argentine)	Rico	Rico Argentine Mining Co., Box 158, Rico	Gold, Silver, Copper, Lead, Zinc, Iron	Mine
St. Louis Tunnel	Rico	Fahrion, Johnson & Jones, Box 115, Rico Iron Clad Mining Co., Rico	Gold, Silver, Copper, Lead, Zinc	Mine

DOUGLAS COUNTY

Aurora Rampart Tunnels	Waterton	F. H. Linneman, Inc., 1300 Harlan St., Denver		Tunnel
Hogback #3, #4	Waterton	Robinson Brick & Tile Co., Box 1619, Denver	Clay	Mine
M & S	Sedalia	The M & S, Inc., Box 131, Sedalia	Stone	Plant
Madis	Parker	Stroud-Whisenhunt, 520 Anderson St., Castle Rock	Clay	Mine
Pioneer	Parker	Robinson Brick & Tile Co., Box 1619, Denver	Clay	Mine
Ringenberg	Waterton	Denver Brick & Pipe Co., Box 2329, Denver	Clay	Mine
Skeleton #2	Sedalia	The M & S, Inc., Box 131, Sedalia	White Quartz	Quarry
Stevens Ranch	Castle Rock	Stroud-Whisenhunt, 520 Anderson St., Castle Rock	Clay	Mine
Stroh	Parker	Stroud-Whisenhunt, 520 Anderson St., Castle Rock	Clay	Mine
Waterton	Waterton	Waterton Sand & Clay, 5953 S. Rapp, Littleton	Clay, Sandstone	Mine & Plant

EAGLE COUNTY

Chapman Access Road (Fryingpan-Arkansas)	Meredith	Winston, Foley, Frazier—Davis & Hurley, Box 73, Meredith		Access Road
Coyote Tunnels (Homestake)	Pando	Berco, Inc., Box 188, Nucla		Tunnel
Dotsero Quarry	Dotsero	Lava Products, Inc., Box 390, Glenwood Springs	Cinders	Quarry
Eagle Mine & Mill	Gilman	The New Jersey Zinc Co., Gilman	Silver, Copper, Lead, Zinc	Mine & Mill
Homestake Dam	Pando	Morrison-Knudsen, Inc., Box 921, Leadville		Dam
Homestake Intake	Pando	Smith-Quad Construction Co., Box 947, Leadville Berco, Inc., Box 188, Nucla		Tunnel

EAGLE COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Missouri Creek Tunnel (Homestake)	Pando	Boyles Brothers Drilling Co., Box 541, Minturn		Tunnel
Ruedi Dam (Fryingpan-Arkansas)	Basalt	Lockheed Shipbuilding & Construction Co., Basalt		
		Puget Sound Bridge & Dry Dock Co., Basalt		Dam

ELBERT COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Buffalo	Kiowa	Robinson Brick & Tile Co., Box 1619, Denver	Clay	Mine
Tucker	Kiowa	Denver Brick & Pipe Co., Box 2329, Denver	Clay	Mine

EL PASO COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Blue Bird	West Cheyenne Canyon	Donald A. Pence, Box 2260, Colorado Springs	Columbium	Quarry
Broderick & Gibbons	Colorado Springs	Broderick & Gibbons, Inc., Box 2167, Colorado Springs	Sand, Gravel	Pit & Plant
Carson	Ft. Carson	Carson Gravel Co., 136 Stevens Dr., Security		
		Gene L. Ray, 136 Stevens Dr., Security	Sand, Gravel	Pit
Castle	Colorado Springs	Gene Schooler, 1412 N. Handcock, Colorado Springs	Sand, Gravel	Plant
Castle Quarry	Garden of Gods	Castle Concrete Co., Box 2379, Colorado Springs	Sand, Gravel, Limestone	Quarry & Plant
Hecla	Air Force Academy	Dale Hoover, 1515 Park Ave., Canon City	Clay	Mine
Lennox Breed	Pike View	Colorado Lime Co., R. R. 1, Colorado Springs	Limestone	Quarry & Plant
Navajo	Crystola	Colorado Quartz & Minerals Corp., Box 132, Cascade	Quartz	Quarry
NORAD	Cheyenne Mountain	Grafe-Wallace-Foster, Box 1639, Colorado Springs		Tunnel
Rampart Range #2 (Homestake)	Woodland Park	F. H. Linneman, Inc., Box 1498, Edgewater		Water Diversion Tunnel
Sand Pit #2	Colorado Springs	Transit Mix Concrete, Box 849, Colorado Springs	Sand, Gravel	Pit & Plant
Springs Silica	Colorado Springs	William Eskeldson, 815 N. Pleasant Rd., Colorado Springs	Silica	Mine
Strickler	Pikes Peak	Colorado Springs Public Utilities, 18 S. Nevada, Colorado Springs		Water Diversion Tunnel
White Eagle	Crystola	Colorado Quartz & Mineral Corp., Box 1362, Colorado Springs	Quartz, Granite, Stone	Plant

FREMONT COUNTY

Burnito Ganister	Canon City	Ray Sturbaum Mining, 225 Main St., Canon City	Quartz, Ganister	Quarry
Canon Chemical	Canon City	Canon Chemical Co., Box 1074, Colorado Springs	Zinc Slag	Pit & Plant
Canon Dolomite	Canon City	Colorado Fuel & Iron Co., Box 847, Canon City	Dolomite	Quarry
Coaldale	Coaldale	Fibreboard Paper Products, Box 63, Coaldale	Gypsum	Quarry
Cotopaxi Mine	Cotopaxi	Cotter Corporation, Box 751, Canon City		Core Drilling
Cotter	Canon City	Cotter Corporation, Box 751, Canon City	Silver, Lead, Zinc, Uranium	Mill
Cowan Travertine	Canon City	Cowan Brothers, 227 Main St., Canon City	Marble, Limestone	Quarry
Dan—Dick #1, #2	Salida	William Wyble, Box 562, Longmont	Gypsum	Quarry
Devils Hole	Texas Creek	Alex Lockhart & Sons, 313 S. 9th St., Canon City		
		Lyons Native Stone, Inc., 1139 Baker St., Longmont	Quartz, Beryl	Quarry
Dino #1, #2	Texas Creek	Ralph J. Pierce, 108 Penn Ave., Canon City	Quartz, Fluorspar	Quarry
Green Rock Lode	Westcliffe	O. L. Braly, Wetmore	Olivine	Quarry
Irvin	Salt Canyon	William R. Irvin, Rt. 1, Penrose	Clay	Mine
Knob Hill	Tallahassee Creek	Charles H. Hiesen & Normand Earl, Box 643, Canon City	Uranium	Mine
Last Chance	Tallahassee Creek	Charles H. Hiesen, Box 643, Canon City		
		Warren Wright, Box 566, Nucla	Uranium	Mine
Mica Lode	Royal Gorge Park	Alex Lockhart & Sons, 313 S. 9th St., Canon City	Quartz, Beryl	Quarry
New Jersey Zinc Plant	Canon City	The New Jersey Zinc Co., Box 319, Canon City	Zinc	Plant
Notaeb #1	Penrose	Notaeb Development Co., 730 Main, Canon City		
		George Stroup, Rt. 1, Box 271, Canon City	Clay	Mine
Penrose	Penrose	Dale Hoover, 1515 Park Ave., Canon City	Silica	Quarry
Persolite	Florence	Persolite Products, Inc., Box 105, Florence	Perlite, Rancite, Gypsum	Plant
Phantom Canyon	North Beaver Creek	George Stroup, Box 271, Rt. 1, Canon City	Clay	Mine
Portland	Portland	Ideal Cement Corp., Box 231, Florence	Limestone	Quarry & Plant
Poston	Canon City	Poston Mining & Milling Co., Box 510, Canon City	Ilmenite Iron	Pit & Plant
St. John	Canon City	Ray Sturbaum Mining Co., 225 Main St., Canon City	Silica	Quarry
Sings Canyon Sand & Gravel	Canon City	Sings Canyon Concrete Co., Box 669, Canon City		
		E. J. Brubaker, Box 550, Rocky Ford	Sand, Gravel	Plant
Thorne	Tallahassee Creek	Climax Uranium Co., Box 1629, Grand Junction	Uranium	Mine
Thunder Mountain	Wellsville	U. S. Soil Conditioning Corp., Box 346, Salida	Gypsum, Soil Conditioner	Quarry
Triangle	Kerr Gulch	Silver Rocker Bentonite Co., Box 108, Salida	Bentonite	Quarry
Vital Earth	Florence	Vital Earth Products, Inc., 122 S. Robinson, Florence	Gypsum	Plant

GARFIELD COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Anvil Points	Rifle	Anvil Points Research Foundation, Inc., Box 1012, Rifle	Oil Shale	Mine & Plant
Basic Chemical Quarry	Glenwood Springs	Basic Chemical Corp., Box 249, Glenwood Springs	Limestone	Quarry
Colony Mine	Grand Valley	Bechtel Corporation, Box 127, Grand Valley Colony Development Co., Box 278, Grand Valley	Oil Shale	Mine
Glenwood Springs Lime Quarry	Glenwood Springs	Frank H. Norberg Co., 703 Guaranty Bank Bldg., Denver	Limestone	Quarry & Plant
Glenwood Springs Tunnel	Glenwood Springs	A. S. Horner Construction Co., Inc., Box 593, Glenwood Springs Colorado Constructors, Inc., Box 682, Glenwood Springs		Tunnel
Rifle Creek Dam	Rifle	Western States Construction Co., Box 598, Loveland Quad Construction Co., Rt. 1, Box 568 A, Rifle Northwestern Engineering Co., Inc., Rt. 1, Rifle		Dam & Tunnel
Rifle Creek Mine	Rifle	Union Carbide Corp., Mining & Metals Div., Rifle	Uranium, Vanadium	Mine
Rifle Mill	Rifle	Union Carbide Corp., Mining & Metals Div., Rifle	Uranium, Vanadium	Mill

GILPIN COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Becker Bates	Central City	Quartz Hill Nevada Mines, Box 161, Central City	Gold, Copper	Mine
Bob Tail	Black Hawk	Hollenbeck & Bakos, Black Hawk	Tourist	Mine
Couch Placers #1, #2	Black Hawk	Stancil Couch, Box 146, Black Hawk	Gold, Tourist	Placer
Diamond Lil	Central City	Central Gold Mine & Mining Museum, Box 161, Central City	Base Metals, Tourist	Mine
Durand Brothers	Gilpin	Durand Brothers, 935 S. Patton Court, Denver	Gold	Placer
Fools Luck	Nevadaville	Pat Greene, Box 86, Black Hawk	Gold	Placer
Glory Hole	Central City	Glory Hole, Inc., Central City	Gold, Silver, Copper, Lead, Zinc	Mine & Mill
Gold Rock	Stewart Gulch	Paul J. Janes, 1010 Grand Ave., So. San Francisco	Gold	Mine
Golden Gilpin	Black Hawk	Crest Mining & Milling Co., Box 141, Black Hawk	Gold, Silver, Copper, Lead, Zinc	Mill
H.I.G. Reservoir	Central City	Western States Construction Co., Inc., Box 598, Loveland		Earth Dam, Water Storage
Hamilton	Black Hawk	Centennial Mining Co., 5872 Taft, Arvada	Gold	Placer
J.R.C. Placer	Missouri Gulch	Frank Eckholt, 3015 S. Grant, Denver	Gold	Placer
Jupiter	Russell Gulch	Second Arapahoe Mining Co., 2950 Pearl St., Boulder	Gold	Mine
Little Colonel	Black Hawk	Black Hawk Trading Post, Black Hawk	Tourist	Mine
Lode Star	Missouri Gulch	R. E. Clarida, 3120 W. Arizona, Denver	Gold, Silver, Copper	Mine

Lone Star	Missouri Lake	Gary Danko, Black Hawk	Gold, Silver, Lead	Mine
Mary Nuisance	Elk Creek	Amrhein-Thompson, 2464 S. Delaware, Denver	Gold	Placer
National Bank Lode	Central City	Faye Tyson, Box 201, Central City	Tourist	Mine
Ninety-One	Russell Gulch	McFarland & Swisher, 609 6th St., Golden	Gold, Silver, Copper, Lead	Mine
Pritchett Tunnel	Missouri Gulch	George C. Pritchett, Black Hawk	Gold	Mine
Raymond	Black Hawk	C. H. & R. Mining Co., 10341 W. 59th Ave., Arvada	Gold	Placer
Rider & Lawson	Black Hawk	Chalmers L. Reider, 630 Logan St., Denver	Gold	Placer
Rudolph Ranch	Black Hawk	Gus Rudolph, Black Hawk	Peat	Peat Bog
Silver Bell	Black Hawk	Eiven Jacobson, Black Hawk	Peat	Peat Bog
Thunderbird	Missouri Gulch	Marvin B. Pinnt, 1800 W. 83rd Ave., Denver	Gold	Mine
Wild Rose	Black Hawk	C. H. & R. Mining Co., 10341 W. 59th Ave., Arvada	Gold, Silver	Mine
Wilma	Apex	Nye Metals, Inc., Black Hawk	Molybdenum	Mine
Zacker	Black Hawk	Ralph Zacker, Black Hawk	Gold	Placer

GUNNISON COUNTY

Alcora Concrete	Sapinero	Alcora Concrete, Box 535, Pueblo	Sand, Gravel	Plant
Atlas	Crested Butte	Dade & Shumway Mining Co., Box 967, Grand Junction		
		Elk Mountain Mining & Milling Co., Box 208, Crested Butte	Gold, Silver, Copper, Lead, Zinc	Mill
Baxter Group	Washington Gulch	Hodgson Lease, Box 401, Crested Butte	Gold, Silver, Lead	Mine & Mill
Bear Creek Mining Co.	Gunnison	Bear Creek Mining Co., Suite 420, Midland Savings Bldg., 300 E. Hampden, Englewood	Copper, Molybdenum	Drilling
Big Iron Hill	Powderhorn	Boyles Brothers Drilling Co., 2960 W. 7th Ave., Denver	Thorium, Tantalum, Columbium	Mine
Blue Mesa Dam (Curecanti)	Sapinero	Tecon Corporation, Box 718, Gunnison		Dam
Brown Derby	Ohio City	Jack A. McLain, Parlin	Rare Earths	Mine
Carter	Ohio City	Comanche Milling Corp, Ohio City	Gold, Silver, Copper, Lead, Zinc	Mine & Mill
Daisy	Elk Mountain	Dade & Shumway Mining Co., Box 967, Grand Junction	Gold, Silver, Copper, Lead, Zinc	Mine
Forest Queen	Crested Butte	Forest Queen Mines, Box 154, Crested Butte	Silver, Copper, Lead, Zinc	Mine & Mill
Gold Links	Ohio City	H. L. Bird, Box 663, Boulder	Gold, Silver, Copper, Lead, Zinc	Mine
Keystone Mine & Mill	Crested Butte	McFarland & Hullinger, Box 468, Crested Butte	Gold, Silver, Copper, Lead, Zinc	Mine & Mill
Lead King	Marble	Basin Resources, 4498 Federal Blvd., Denver	Copper, Lead, Zinc	Mine
Micawber	Crested Butte	Elk Mountain Mining & Milling Co., Box 208, Crested Butte	Gold, Silver, Copper, Lead, Zinc	Mine

GUNNISON COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Pearl's Placer	Gold Creek	William Wright, Ohio City	Gold, Quicksilver	Placer
Pieplant Mill & Jupiter	Taylor Reservoir	Keith Andrews, Box 87, Nucla	Gold, Silver	Mine & Mill
Ruby Chief	Crested Butte	Dade & Shumway Mining Co., Box 967, Grand Junction	Gold, Silver, Copper, Lead, Zinc	Mine
Silent Friend	Pitkin	Jack McLain, Parlin	Base & Precious Metals	Mine
Silver Spruce	Gothic	B. D. K. Mining Co., Victoria, Texas	Gold, Silver, Lead	Mine
Star Group	Italian Mountain	John Lambertson, Box 567, Gunnison	Gold, Silver, Lead	Mine
Titan	Powderhorn	Titan Pinnacle, Inc., 320 Fillmore, Denver	Biotite, Titanium, Magnetite	Mine
Whitney	Powderhorn	Michigan Chemical Co., Saint Louis, Michigan	Uranium, Thoriumite	Mine

HINSDALE COUNTY

Belle of the West	Lake City	Thirty-Two—Thirty-Six Development Co., Box 431, Lake City	Gold, Silver, Copper, Lead	Mine
Big Casino ⌗2	Lake City	Shiprock, Ltd., Box 428, Grand Junction	Silver, Lead	Mine
Groves Tunnel	Lake City	Cole Brothers, 2485 U. S. Highway 6 & 50, Grand Junction	Base & Precious Metals	Mine
Highland Chief	Lake City	Joe Pitts, Box 333, Lake City	Base & Precious Metals	Mine
Monte Queen	Lake City	Havilah Mines Co., Box 92, Lake City Joe Pitts, Box 333, Lake City	Gold, Silver, Copper, Lead, Zinc, Bismuth	Mine
Pride of America	Lake City	Roy Pray & Kenny Knapp, Lake City	Gold, Silver, Copper, Lead	Mine
Sterling Group	Sherman	Thirty-Two—Thirty-Six Development Co., Box 431, Lake City	Gold, Silver, Copper, Lead, Zinc	Mine
Ute & Ulay	Henson Creek	Hughes Mining Co., Box 1886, Grand Junction	Base & Precious Metals	Mine

HUERFANO COUNTY

Huerfano Pit ⌗4	Walsenberg	Empire Clay Products, Inc., Box 156, Trinidad	Clay	Mine

JEFFERSON COUNTY

Aggregates, Inc.	Golden	Rocky Mountain Aggregates, Inc., Box 771, Golden	Crushed Stone	Plant
Augusta	Evergreen	C & S Mining Co., Box B, Evergreen Castle Realty Co., 1465 S. Federal, Denver	Gold, Silver, Copper	Mine
Beryl Ores	Arvada	Beryl Ores Co., 10000 Alkire St., Arvada	Beryl & Mica	Plant

Black Silica	Golden	G. C. Bennetts & Sons, Box 759, Rt. 1, Golden	Silica	Mine
Caldwell	Plainview	Denver Brick & Pipe Co., Box 2329, Denver	Clay	Mine
Church's Shale Pit	Golden	Duane Bruno, 929 E. Ellsworth, Denver	Shale	Quarry
Clalite	Golden	Clalite Aggregate Co., 4250 McIntyre, Golden	Shale	Plant
Cooper	Buffalo	Earl M. Cooper, 1232 S. Eaton Court, Denver	White Quartz	Mine
Daisy Bell	Twin Cedars	Crisler & Corder, 2520 Robinson St., Colorado Springs	White Quartz, Fluorspar	Quarry
Evergreen Mill	Evergreen	C & S Mining Co., Box B, Evergreen	Gold, Silver, Copper, Lead, Zinc	Mill
Green Mountain	Rooney Road	George W. Parfet Estate, Inc., Box 266, Golden	Clay	Mine
Harvey	Rocky Flats	John L. Harvey, 1506 Depew St., Lakewood	Rock, Clay	Mine
Lakewood	Golden	Lakewood Brick & Tile Co., 1325 Jay St., Lakewood	Clay	Mine
Lariat	Waterton	Robinson Brick & Tile Co., Box 1619, Denver	Clay	Mine
Lee	Golden	Lee Sand & Gravel Co., Box 178, Wheatridge	Gold, Sand, Gravel	Pit & Plant
Leyden	Golden	Kaiser Refractory Corp., 3033 Blake St., Denver	Clay	Mine
Luster #1	Buffalo Creek	The M. & S. Inc., Box 131, Sedalia	White Quartz	Quarry
Madonna	Twin Cedars	Robert W. Beal, Box 273, Green Mountain Falls	Quartz, Rare Earths	Mine
McIntyre Plant	Golden	Asphalt Paving Co., 14802 W. 44th Ave., Golden	Sand, Gravel	Pit & Plant
Morrison Pit	Morrison	Bear Valley Gravel Co., Box 167, Morrison	Sand, Gravel	Pit & Plant
Mt. Carbon	Denver	Duane Bruno, 929 E. Ellsworth, Denver	Clay, Shale	Quarry
Nare Prospect	Golden	L. D. Ohman, 800 Bonnie Brae, Denver	Uranium	Mine
North Chieftan	Denver	Robinson Brick & Tile Co., Box 1619, Denver	Clay	Mine
Oregon #3	Buffalo	Forest Hamilton, Box 23, Buffalo Creek	White Quartz	Quarry
Pit #6, #8, #11	Denver	Brannan Sand & Gravel Co., 4800 Brighton Blvd., Denver	Gold, Sand, Gravel	Pits & Plant
Ramstetter	Guy Hill	James K. Ramstetter, Box 28, Golden	White Quartz, Mica	Quarry
Red Clay	Golden	Lakewood Brick & Tile Co., 1325 Jay St., Lakewood	Clay	Mine
Rio Grande	Denver	Rio Grande Gravel Co., 123 Santa Fe Drive, Denver	Gold, Sand, Gravel	Pit & Plant
Rockwell	Golden	George W. Parfet Estate, Inc., Box 266, Golden	Clay	Mine
Rocky Flats	Boulder	The Idealite Co., Box 1140, Boulder	Shale	Quarry & Plant
Rubey Standard	Golden	H. M. Rubey Clay Co., Box 266, Golden	Clay	Mine
Schwartzwalder	Golden	Denver Golden Corp., 2138 Champa, Denver	Uranium	Mine
South Chieftan	Rooney Road	Robinson Brick & Tile Co., Box 1619, Denver	Clay	Mine
State	Marshall	Colorado Brick Co., Box 845, Longmont Evergreen Freight Line, Box 55, Evergreen Ludvick H. Hladik, Box 424, Evergreen	Clay, Gravel	Mine

JEFFERSON COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Strainland #1	Rooney Road	Denver Brick & Pipe Co., Box 2329, Denver	Clay	Mine
Strang	Golden	G. C. Bennetts & Sons, Box 759, Golden	White Quartz	Quarry
Terra Cotta	Golden	Lakewood Brick & Tile Co., 1325 Jay St., Lakewood	Clay	Mine
Tin Cup	Rooney Road	Tin Cup Mining Co., Box 1619, Denver	Clay	Mine
Two Brothers	Golden	G. C. Bennetts & Sons, Box 759, Rt. 1, Golden	Clay	Mine
Two Forks Dam	South Platte	E. E. Lewis, Inc., Box 1481, Grand Junction		Dam

LAKE COUNTY

Arkansas Plant	Climax	C. Ryan & Son Construction Co., Climax	Sand, Gravel	Plant
Carlton Tunnel	Leadville	High Line Canal Co., Box 8, Rocky Ford		Water Diversion Tunnel
Cathy Mine	Twin Lakes	Denzel Hatch, Twin Lakes	Gold	Mine
Climax Mill	Climax	Climax Molybdenum Co., Climax	Molybdenum, Tin, Tungsten, Pyrite	Mill
		Eby Construction Co., 2901 S. Santa Fe, Englewood		
		Rocky Mt. Bridge Co., Box 937, Leadville		
		C. Ryan & Son Construction Co., Climax		Construction
Climax Mine	Climax	Climax Molybdenum Co., Climax	Molybdenum, Tin, Tungsten, Pyrite	Mine
		Circle A Drilling Co., Box 407, Climax		Core Drilling
Divide Tunnel (Fryingpan-Arkansas)	Leadville	Smith-Quad Construction Co., Box 947, Leadville		Tunnel
Homestake	Leadville	Smith-Quad Construction Co., Box 947, Leadville		Tunnel
Irene	Iowa Gulch	Resurrection & American Smelting & Refining Co., Box 936, Leadville	Gold, Silver, Lead, Zinc	Mine
Mt. Elbert Peat Moss	Leadville	Mt. Elbert Peat Moss, Inc., Box 262, Kremmling	Peat	Peat Bog
Sugar Loaf Dam (Fryingpan-Arkansas)	Leadville	Colorado Constructors, Inc., 380 W. 62nd Ave., Denver		Dam

LA PLATA COUNTY

Animas Valley Sand & Gravel	Durango	Animas Valley Sand & Gravel Co., Box 1001, Durango	Sand, Gravel	Pit & Plant
Bessie G.	La Plata City	Mineral Concentrates & Chemical Co., 1430 First National Bank Bldg., Denver	Gold, Silver	Mine & Mill
Burnett Gravel Pit	Durango	Burnett Construction Co., Box 1712, Durango	Sand, Gravel	Plant
Grassy Hill	Durango	Copper Age Uranium Co., Marvel	Gold, Silver, Copper	Mine
Lady Eleanor	La Plata Canyon	Kel-Sco Industries, Hesperus	Gold, Silver, Copper, Lead, Zinc	Mine
Mars	La Plata Canyon	C. Z. Reed, Mayday Rt., Hesperus	Gold, Silver, Lead	Mine
Mesa Concrete Co.	Durango	Mesa Concrete Co., Box 278, Durango	Sand, Gravel	Plant

Morse Sand & Gravel	Durango	Morse Sand & Gravel, Rt. 1, Box 350 C, Durango	Sand, Gravel	Plant
Rosenite	La Plata Canyon	C. Z. Reed, Mayday Rt., Hesperus	Gold, Silver, Copper	Mine
Sarah G	Durango	Charles Goulding, Star Rt., Box 210, Durango	Silver	Mine
Spafford Peat Moss	Durango	Bill Herron, Bloomfield	Peat	Peat Bog
Star	La Plata Canyon	C. Z. Reed, Mayday Rt., Hesperus	Silver, Lead, Zinc	Mine
Thomas Property	Durango	American Mining & Dredging Co., Box 3093, Durango	Gold	Placer

LARIMER COUNTY

Berthoud Native	Carter Lake	Berthoud Pink Stone Co., Box 99 A, Berthoud	Stone	Quarry
Berthoud Quarries	Carter Lake	Colorado Stone Co., Box 596, Longmont	Stone	Quarry
Boettcher	La Porte	Ideal Cement Co., 821 17th St., Denver	Limestone, Shale	Plant & Quarry
Chance	Masonville Road	Weaver Stone Co., 759 S. York, Denver	Stone	Quarry
Goodwin	Payne Ranch	Ernest W. Munroe, 101 E. Vine, Fort Collins	Gypsum	Quarry
Holly	Fort Collins	Frank H. Norberg Co., 703 Guaranty Bank Bldg., Denver	Limestone	Plant
Loveland	Masonville Road	Colorado Stone Co., Box 596, Longmont	Stone	Quarry
Loveland	Loveland	U. S. Gypsum Co., Estes Park Rt., Loveland	Gypsum	Quarry
Munroe	Fort Collins	Ernest W. Munroe, 101 E. Vine, Fort Collins	Gypsum, Limestone	Plant
Ohline Quarries	Beach Hill	Arthur Ohline, Lyons	Stone	Quarry
Olin	Masonville	Olin Arkins Quarries, Estes Park Rt., Loveland	Stone, Moss Rock	Quarry
Pinion Grove	Fort Collins	Pinion Grove Lime Co., 101 E. Vine, Fort Collins	Limestone	Quarry
Red Hill #1	Livermore	Elbert C. Robinson, Livermore	Uranium	Mine
Rex	Fort Collins	Frank H. Norberg Co., 703 Guaranty Bank Bldg., Denver	Limestone	Quarry
Rose Stone	Lyons	Colorado Stone Co., Box 596, Longmont	Stone	Quarry
Sprague	Carter Lake	Berthoud Pink Stone Co., Box 99A, Berthoud	Stone	Quarry
Sterling	Taft Hill Road	Sterling Sand & Gravel Co., Box 759, Fort Collins	Sand, Gravel	Plant
Troupe	Masonville Road	Sterling Stone Co., Box 58, Lyons	Stone	Quarry
Union Pacific	Fort Collins	Frank H. Norberg Co., 703 Guaranty Bank Bldg., Denver	Limestone	Quarry
Weaver	Masonville	Weaver Stone Co., 759 S. York, Denver	Stone	Quarry
Wild South	Masonville	Wild's Stone Quarries, Estes Park Rt., Loveland	Stone	Quarry

LAS ANIMAS COUNTY

Floyd Pit #1, #3, #4	Trinidad	Empire Clay Products, Inc., Box 156, Trinidad	Clay	Mine
Pit #3	Trinidad	Empire Clay Products, Inc., Box 156, Trinidad	Clay	Mine
Santa Fe	Starkville	Scott Mining Co., Starkville	Clay	Mine
Trinidad	Starkville	Harbison-Walker Refractories Co., Box 150, Canon City	Clay	Mine

MESA COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Arrowhead #7, #23, #25	Calamity Mesa	Durfee Brothers, Box 247, Gateway U. & H. Mining Co., 205 N. Willerup, Montrose	Uranium, Vanadium	Mine
Belmont #1	Calamity Mesa	Bennett Mining Co., Box 247, Norwood	Uranium, Vanadium	Mine
Big Seven	Blue Creek	Clayton Stocks, Box 414, Moab, Utah	Uranium, Vanadium	Mine
Black Mama	Tenderfoot Mesa	U. & H. Mining Co., 205 N. Willerup, Montrose	Uranium, Vanadium	Mine
Black Streak	Blue Creek	Black & Chiles, Box 331, Nucla	Uranium, Vanadium	Mine
Blue Ribbon No. 2	Calamity Mesa	Bennett Mining Co., Box 247, Norwood	Uranium, Vanadium	Mine
Bonanza #2	Beaver Mesa	Climax Uranium Co., Box 1629, Grand Junction	Uranium, Vanadium	Mine
Bonanza #3 (Century)	Beaver Mesa	McWilliams & Yeager, 2972 D½ Rd., Grand Junction	Uranium, Vanadium	Mine
Bujan	Tenderfoot Mesa	Dade & Shumway Mining Co., Box 967, Grand Junction Wright, Nichols, Dade & Shumway, Paradox	Uranium, Vanadium	Mine
Cherokee	Beaver Mesa	H.O.L. Mining Co., Box 567, Grand Junction	Uranium, Vanadium	Mine
Climax Uranium Mill	Grand Junction	Climax Uranium Co., Box 1629, Grand Junction	Uranium, Vanadium	Mill
Copper Queen	Unaweep Canyon	Robert Fricke, 543 Sparn St., Grand Junction	Amethyst	Mine
Depression #2, #6	Flat Top Mesa	Nichols Mining Co., Box 342, Paradox	Uranium, Vanadium	Mine
Fruita Sand & Gravel	Fruita	Fruita Sand & Gravel, Box 603, Fruita	Sand, Gravel, Cement	Pit & Plant
Henderson	Blue Creek Mesa	Edward Smith, Box 236, Naturita	Uranium, Vanadium	Mine
Himes Drilling Co.	Nucla	Bud Himes, 2870 Unaweep Drive, Grand Junction	Uranium, Vanadium	Drilling
Hubbard	Beaver Mesa	D. P. Mining Co., Box 237, Gateway	Uranium, Vanadium	Mine
Jody #8	Blue Mesa	Clayton Stocks, Box 414, Moab, Utah Story Brothers, Box 417, Naturita	Uranium, Vanadium	Mine
Jody #10	Mesa Creek	Bruce & Davis Mining Co., Box 296, Naturita	Uranium, Vanadium	Mine
July	Outlaw Mesa	Bennett Mining Co., Norwood	Uranium, Vanadium	Mine
June Mine	Outlaw Mesa	Sage & Bennett, Box 334, Norwood	Uranium, Vanadium	Mine
Kelly Stone Company	Uncompahgre Plateau	Kelly Stone Co., Inc., 2921 U. S. Highway 50, Grand Junction	Stone	Quarry
La Sal	Beaver Mesa	Shipman Mining Co., Box 861, Grand Junction	Uranium, Vanadium	Mine
Liberty Bell	Tenderfoot Mesa	U. & H. Mining Co., 205 N. Willerup, Montrose	Uranium, Vanadium	Mine
Lincoln	Tenderfoot Mesa	Rex Holland, Box 243, Naturita	Uranium, Vanadium	Mine
Lost Dutchman	Beaver Mesa	Climax Uranium Co., Box 1629, Grand Junction	Uranium, Vanadium	Mine
Lucius Pitkin, Inc.	Four Corners Area	Lucius Pitkin, Inc., Box 1351, Grand Junction	Uranium, Vanadium	Plant
Lumsden	Beaver Mesa	D. P. Mining Co., Box 237, Gateway	Uranium, Vanadium	Mine
Mesa #8	Outlaw Mesa	Ralph Foster & Sons, 2950 A½ Road, Grand Junction	Uranium, Vanadium	Mine
Mill Site	Outlaw Mesa	Bennett Mining Co., Box 337, Norwood	Uranium, Vanadium	Mine
New Verde	Calamity Mesa	Star Mining Co., Box 291, Grand Junction	Uranium, Vanadium	Mine
October Adit	Beaver Mesa	Climax Uranium Co., Box 1629, Grand Junction	Uranium, Vanadium	Mine

Outlaw #23	Outlaw Mesa	Harold Price, Box 74, Nucla	Uranium, Vanadium	Mine
Packrat	Beaver Mesa	H. O. L. Mining Co., Box 567, Grand Junction	Uranium, Vanadium	Mine
Rajah #30	Beaver Mesa	H. O. L. Mining Co., Box 567, Grand Junction	Uranium, Vanadium	Mine
Seven Thousand Islands	Outlaw Mesa	Bennett Mining Co., Box 337, Norwood	Uranium, Vanadium	Mine
Shiprock Limited	Grand Junction	Shiprock Limited, Box 428, Grand Junction		Drilling
Sunspot	Beaver Mesa	D. P. Mining Co., Box 237, Gateway	Uranium, Vanadium	Mine
Thornton	Beaver Mesa	Charles V. Woodard, 2909 Highway 50, Grand Junction	Uranium, Vanadium	Mine
Uncompahgre Stone Co.	Uncompahgre Plateau	Uncompahgre Stone Co., 2708 U. S. Highway 50, Grand Junction	Stone	Quarry
United Sand & Gravel	Grand Junction	United Sand & Gravel Co., Box 476, Grand Junction	Sand, Gravel	Plant
Whitewater Plant	Whitewater	Whitewater Sand & Gravel Co., 940 S. 10th, Grand Junction	Sand, Gravel	Pit & Plant
Yellow Jacket #15	Calamity Mesa	Bennett Mining Co., Box 247, Norwood	Uranium, Vanadium	Mine

MINERAL COUNTY

Amethyst & Commodore	Creede	Emperius Mining Co., Creede	Silver, Copper, Lead, Zinc	Mine
Bull Dog	Creede	Homestake Mining Co., Box 6, Creede	Silver, Lead, Zinc	Mine
Creede Mill	Creede	Emperius Mining Co., Creede	Gold, Silver, Copper, Lead, Zinc	Mill
Equity	Creede	Joe Cox, Box 1955, Monahan, Texas	Silver, Lead, Zinc	Mine
Mexico Mine	Creede	King Solomon Mining Co., Box 81, Creede	Silver, Copper, Lead, Zinc	Mine

MONTEZUMA COUNTY

Brownsville Group	Mancos	E. P. Crawford, 223 N. Ash St., Cortez	Gold, Silver	Mine
Crawford #1	Mancos	E. P. Crawford, 223 N. Ash St., Cortez	Gold, Silver	Mine
Red Arrow	Mancos	The First National Oil & Minerals Co., Box 205, Mancos	Gold, Silver	Mine
Sexton Brothers Drilling	Four Corners Area	Sexton Brothers Drilling Co., Box 506, Cortez		Drilling
Snyder Placer	Rico	Gold Nugget Placer Mining Co., Rico	Gold	Placer
Twin Canyon Group	Mancos	Wesley Potts, Mancos	Gold, Silver	Mine

MONTROSE COUNTY

American Eagle	Little Gyp Valley	Webb Resources, 1645 Court Place, Denver Rex Holland, Box 243, Naturita	Uranium, Vanadium	Mine
Anna May #1	Monogram Bench	Bond & Ince, Box 173, Nucla	Uranium, Vanadium	Mine
Arrowhead	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Baby Ruth	Bull Canyon	Lark Washburn, 5353 Rollercoaster Rd., Tucson, Arizona Felix Mendisco, Box 196, Naturita	Uranium, Vanadium	Mine
Betty Jean	Martin Mesa	Jerry Mayfield, Box 362, Naturita Gordon Reed, Box 325, Naturita	Uranium, Vanadium	Mine

MONTROSE COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Bittercreek	Long Park	L. E. Ross, Box 74, Placerville		
		Dade & Shumway Mining Co., Box 967, Grand Junction	Uranium, Vanadium	Mine
Black Dinah	Long Park	Eugenio Corta, Box 163, Redvale	Uranium, Vanadium	Mine
Black Rock	Uravan	Hickey & Erfurt, Box 24, Naturita		
		Woodrow Gripe, Box 225, Naturita	Uranium, Vanadium	Mine
Blackburn	Paradox Mining District	Cecil W. Bunker, Box 27, Nucla	Uranium, Vanadium	Mine
Bobcat	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Brooks	Little Gyp Valley	Mitchell & Fisher, Box 399, Naturita	Uranium, Vanadium	Mine
Buckshot	Long Park	Phil Bunker Mining Co., Box 277, Nucla	Uranium, Vanadium	Mine
Calvert #2, #3	Weddingbell Mt.	Javernick Brothers, Box 712, Montrose	Uranium, Vanadium	Mine
Camel #6	Bull Canyon	Hickey & Erfurt, Box 603, Nucla	Uranium, Vanadium	Mine
Cashin	La Sal Creek	Meta-Metals Corporation, 709 Arville Ave., Barstow, California	Silver, Copper	Mine
Cliff Dweller	Dolores Bench	William Hickey, Box 24, Naturita	Uranium, Vanadium	Mine
Club Group	Club Mesa	Union Carbide Corp., Mining & Metals Div., Uravan	Uranium, Vanadium	Mine
Club Sandwich	Dolores Bench	Orval Care, Box 252, Naturita	Uranium, Vanadium	Mine
Columbus	Long Park	C. N. Athey, Box 156, Naturita	Uranium, Vanadium	Mine
Crab Orchard	Bull Canyon	Felix Mendisco, Box 196, Naturita		
		James Galyean, Box 474, Nucla	Uranium, Vanadium	Mine
Cripple Creek #1, #2	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Crystal Dam	East Portal of Uncompahgre	H-E Lowdermilk, 1950 W. Dartmouth, Englewood		
		U. S. Bureau of Reclamation, Montrose		Dam & Road
Deer Shaft	Monogram	Eckman Mining Co., Box 127, Nucla	Uranium, Vanadium	Mine
Diana	Bull Canyon	Hickey & Erfurt, Box 603, Nucla	Uranium, Vanadium	Mine
Donald "L"	Long Park	Lloyd Rainwater, Nucla	Uranium, Vanadium	Mine
Duggan Adit	Monogram Mesa	Climax Uranium Co., Box 1629, Grand Junction	Uranium, Vanadium	Mine
Equinox	Dolores Bench	American Eagle Leasing Co., Box 343, Norwood	Uranium, Vanadium	Mine
Eula Belle	Mesa Creek	Union Carbide Corp., Mining & Metals Div., Uravan	Uranium, Vanadium	Mine
Eureka	Carpenter Ridge	Arnold & Doll, Box 462, Nucla	Uranium, Vanadium	Mine
Fawn Springs	Bull Canyon	Oral Clark, Box 728, Nucla	Uranium, Vanadium	Mine
Firecracker #2	Long Park	Morlang & Wolverton, Rt. 2, Delta		
		Frank Elder, Box 247, Nucla	Uranium, Vanadium	Mine
Frank Stoneman Drilling	Lower Bull Canyon	Frank Stoneman Drilling Co., Box 355, Rifle	Uranium, Vanadium	Drilling
Friday	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Good Hope	Eagle Basin	Wright & Rinderle, Box 566, Nucla	Uranium, Vanadium	Mine
Great Western	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Greenback	Monogram Bench	Bond & Ince, Box 173, Nucla	Uranium, Vanadium	Mine
Guadalcanal	Long Park	Felix Mendisco, Box 196, Naturita	Uranium, Vanadium	Mine
Happy	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Happy Jack #1	Little Gyp Valley	Rex Holland, Box 245, Naturita	Uranium, Vanadium	Mine
Happy Thought	Monogram Bench	Bond & Ince, Box 173, Nucla	Uranium, Vanadium	Mine
Hardrock	Long Park	George Olney, Box 94, Naturita	Uranium, Vanadium	Mine

Hidden Basin	Long Park	James Herring, Box 194, Nucla	Uranium, Vanadium	Mine
Honeymoon	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Hummer	Monogram Mesa	Lowell Staats Mining Co., Box 337, Nucla	Uranium, Vanadium	Mine
Jensen & Jensen Well	Bedrock	Jensen & Jensen Brine Co., Box 37, Bedrock	Salt Brine	Brine Well
Just Right	Long Park	Phil Bunker Mining Co., Box 277, Nucla	Uranium, Vanadium	Mine
Lark #7	Bull Canyon	Eugenio Corta, Box 165, Redvale	Uranium, Vanadium	Mine
Lark #8	Bull Canyon	James Galyean, Box 474, Nucla	Uranium, Vanadium	Mine
Little Alice	Wild Steer Canyon	William D. Williams, Box 416, Naturita	Uranium, Vanadium	Mine
Little Buckhorn	Carpenter Ridge	Gerald Randolph, Box 333, Naturita	Uranium, Vanadium	Mine
Long Park #1	Long Park	Levi B. Barnes Mining Co., Box 156, Nucla	Uranium, Vanadium	Mine
Long Park #2, #13	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Long Park #6	Long Park	David E. Blake, Box 431, Nucla	Uranium, Vanadium	Mine
E. J. Longyear, Inc.	Naturita	E. J. Longyear, Inc., Box 398, Naturita		Drilling
MacPherson Drilling Co.	Four Corners Area	MacPherson Drilling Co., 601 N. 2nd, Montrose		Drilling
Margie	Uravan	David Chiles, Box 26, Bedrock	Uranium, Vanadium	Mine
Media	Long Park	Hickey & Erfurt, Box 603, Nucla	Uranium, Vanadium	Mine
Meek Tunnel	Crawford	Gordon Meek, Maher Tony Fergenchick, Cedaredge		Water Tunnel
Merry Widow	Eagle Basin	C. N. Athey, Box 156, Naturita	Uranium, Vanadium	Mine
Mill #2	Long Park	Lowell Staats Mining Co., Box 334, Nucla	Uranium, Vanadium	Mine
Mineral Joe #1, #4, #11	Monogram Mesa	Climax Uranium Co., Box 1629, Grand Junction	Uranium, Vanadium	Mine
Mineral Joe #2	Monogram Mesa	Sam Richards, Box 608, Nucla	Uranium, Vanadium	Mine
Mineral Park #2	Long Park	Cal Sanders Mining Co., Box 396, Nucla	Uranium, Vanadium	Mine
Modene	Sylvia's Pocket	Harold Johnson, Slick Rock	Uranium, Vanadium	Mine
Monogram #5	Martin Mesa	Marion Trone, Box 294, Norwood	Uranium, Vanadium	Mine
Monster	Long Park	Chiles & Black, Box 26, Bedrock Larry Riley & Clayton Stocks, Box 343, Nucla	Uranium, Vanadium	Mine
Morrow Point Dam	Cimarron	Johnson-M.K., Box 259, Cimarron		Dam
Morrow Point Plant	Cimarron	L. G. Everist, Sioux Falls, South Dakota	Sand, Gravel	Plant
North Star	Dolores Rim	Moore & Wagner, Box 111, Naturita	Uranium, Vanadium	Mine
Obnoxious	Bull Canyon	Oral Clark, Box 728, Nucla	Uranium, Vanadium	Mine
Opera Box	Monogram Mesa	Cecil Bunker, Box 27, Nucla	Uranium, Vanadium	Mine
Paradox	Bedrock	Alva Rockwell, Dove Creek	Silver, Copper	Mine
Paradox D	Monogram Mesa	Cecil Bunker, Box 27, Nucla	Uranium, Vanadium	Mine
Paradox #5, #6	Monogram	Union Carbide Corp., Mining & Metals Division, Uravan	Uranium, Vanadium	Mine
Peanut #3	Bull Canyon	Randolph Brothers, Box 333, Naturita	Uranium, Vanadium	Mine
Picket Corral	Bull Canyon	Keith & Don Andrews, Box 87, Nucla	Uranium, Vanadium	Mine
Prayer #8	Yellowbird Mesa	Dade & Shumway Mining Co., Box 967, Grand Junction	Uranium, Vanadium	Mine
Prayer #9	Yellowbird Mesa	Dade & Shumway Mining Co., Box 967, Grand Junction	Uranium, Vanadium	Mine Mine
Production	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Radium Hill #10	Lower Bull Canyon	J. F. Galyean, Box 474, Nucla	Uranium, Vanadium	Mine
Raven	Little Gyp Valley	Partnership Enterprize, Basin Store, Redvale Rex Holland, Box 243, Naturita	Uranium, Vanadium	Mine
Red Canyon	Uravan	Woodrow Gripe, Box 225, Naturita	Gold	Placer
Red Sox	Dolores Bench	Orval Care, Box 252, Naturita	Uranium, Vanadium	Mine
Renegade #6	Dolores Bench	American Eagle Leasing Co., Box 343, Norwood	Uranium, Vanadium	Mine
Republican	Long Park	James Herring, Box 194, Nucla	Uranium, Vanadium	Mine

MONTROSE COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Rex #38	Eagle Basin	Williams Mining Partnership, Box 505, Naturita	Uranium, Vanadium	Mine
Rim Rock	Carpenter Ridge	Jerry Mayfield, Box 362, Naturita	Uranium, Vanadium	Mine
Rim Rock #5, #6, #9, #12, #14, #16, #17	Lower Bull Canyon	U. & H. Mining Co., 205 N. Willerup, Montrose Dave Blake, Box 431, Nucla	Uranium, Vanadium	Mine
Rim Rock Blues #9	Bull Canyon	Dave Blake, Box 431, Nucla	Uranium, Vanadium	Mine
Sandy	Dolores Bench	Javernick Brothers, 1025 S. Fourth St., Montrose	Uranium, Vanadium	Mine
September Morn #2	Bull Canyon	Lark Washburn, 5353 Rollercoaster Rd., Tucson, Arizona Felix Mendisco, Box 196, Naturita	Uranium, Vanadium	Mine
Sesmo	Long Park	Arnold & Doll, Box 462, Nucla	Uranium, Vanadium	Mine
Sharkey	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Smith Drilling	Nucla	Jack Smith, Box 417, Nucla		Drilling
Sphinx	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Star #6	Spring Creek Mesa	Wright & Nichols, Box 342, Paradox	Uranium, Vanadium	Mine
Sunbeam	Eagle Basin	Dale Souther, Box 66, Redvale	Uranium, Vanadium	Mine
Sunflower	Eagle Basin	Hickey & Erfurt, Box 24, Naturita O. E. Smart, Box 147, Naturita	Uranium, Vanadium	Mine
T.N.T. #3	Long Park	Clark & Lemons, Box 217, Nucla	Uranium, Vanadium	Mine
Teapot Dome	Bull Canyon	U. & H. Mining Co., 205 Willerup Ave., Montrose Dave Blake, Box 431, Nucla	Uranium, Vanadium	Mine
Too High	Wray Mesa	Carl Weaver, 440 Ouray, Grand Junction	Uranium, Vanadium	Mine
Tripod	Long Park	Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Ura	Bull Canyon	Kuykendall Mines Inc., 100 La Plata, Cortez Union Carbide Corp., Mining & Metals Division, Uravan	Uranium, Vanadium	Mine
Uravan Acid Plant	Uravan	Union Carbide Corp., Mining & Metals Division, Uravan	Sulfuric Acid	Plant
Uravan Mill	Uravan	Union Carbide Corp., Mining & Metals Division, Uravan	Uranium, Vanadium	Mill
Vaden View	Wild Steer Canyon	William D. Williams, Box 416, Naturita	Uranium, Vanadium	Mine
Valley View	Carpenter Ridge	O. E. Smart, Box 147, Naturita E. E. Lewis, Inc., Box 1481, Grand Junction	Uranium. Vanadium	Mine
Vanadium King	Long Park	George Olney, Box 94, Naturita	Uranium, Vanadium	Mine
Wedge #1	Long Park	Dade & Shumway Mining Co., Box 976, Grand Junction	Uranium, Vanadium	Mine
Wednesday	Long Park	Felix Mendisco, Box 196, Naturita	Uranium, Vanadium	Mine
Whiteface	Long Park	Cal Sanders, Box 396, Nucla	Uranium, Vanadium	Mine
Williams Crusher	Naturita	Williams Lumber Co., Inc., Box 376, Naturita	Sand, Gravel	Plant
Windy Day	Eagle Basin	Hickey & Erfurt, Box 603, Nucla	Uranium, Vanadium	Mine

OURAY COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Bachelor	Ouray	Bachelor Mines, Box 100, Ouray Harry Peck & Carrol Charles, Ouray	Gold, Silver, Copper, Lead, Zinc	Mine & Mill

Camp Bird	Canon Creek	Federal Resources Corp., Ouray	Gold, Silver, Copper, Lead, Zinc	Mine & Mill
Chipeta & Ora	Cow Creek	Elmer Harris, Box 695, Montrose	Gold, Silver	Mine
Edna #1, #6	Ironton Park	St. Germain Foundation, Box 549, Ouray	Gold, Silver, Lead	Mine
Idarado Mine	Red Mountain	Idarado Mining Co., Ouray	Gold, Silver, Copper, Lead, Zinc	Mine
Keno	Brown Mountain	Columbus Exploration Co., Box 551, Ouray	Gold, Silver, Copper, Lead, Zinc	Mine
Little Mike	Mineral Point	Pat Fancher, Box 63, Ouray	Silver	Mine
Mountain Top	Ouray	Andy Sutack, Box 172, Ouray	Gold, Silver, Lead	Mine
National Bell	Red Monutain	Northwood, Inc., Box 547, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Ponderosa Tunnel	Ouray	Ponderosa Water Contractors, Ouray		Water Tunnel
Portland	Ouray	Shiprock Limited, Box 835, Grand Junction	Gold, Silver, Copper, Lead, Zinc	Mine
Revenue	Canon Creek	Federal Resources Corp., Ouray	Gold, Silver, Copper, Lead, Zinc	Mine
Rouville	Red Mountain	Red Mountain Mining Co., Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Rutomipa	Ouray	Rutomipa Mining Co., Box 223, Ouray	Gold, Silver, Lead, Zinc, Hemotite, Tourist	Mine
Senorita	Ouray	Willreed Mining & Milling, Inc., Box 313, Naturita	Gold, Silver, Copper, Lead	Mine
Uncle Sam	Engineer Mountain	Thunderbird Mining Co., Box C, Gallup, N. Mex.	Gold, Silver, Copper, Lead, Zinc	Mine
Wewissa	Ouray	John Crim, Box 50, Ouray	Gold, Silver, Copper, Lead, Zinc	Mine

PARK COUNTY

Betty	Guffey	Whitmore-Veatch Mining Co., 909 Allison, Canon City	Copper, Zinc	Mine
Black Prince	Georgia Pass	Horn Brothers, Jefferson	Gold, Silver, Copper, Lead, Zinc	Mine
Boomer	Lake George	U. S. Beryllium Corp., 306 Bon Durant Bldg., Pueblo	Beryllium	Mine
Boss Tunnel	Lake George	Colorado Quartz & Minerals, Box 132, Cascade	Quartz	Mine
Crooked Creek	Fairplay	McCoy Jensen Nursery Co., 9800 Morrison Rd., Morrison	Peat	Peat Bog
Double Eagle	Alma	Triaqua Mining Co., Box 20, Alma	Silver	Mine
Evening Star	Mosquito Gulch	Ora Plata, 318 Albian St., Denver	Gold, Silver, Lead	Mine
Furman Ranch	Jefferson	Harvey F. Kemp, Box 340, Morrison	Peat	Peat Bog
Golden Stake #1, #2	Fairplay	Zacher & Couch, Black Hawk	Gold	Placer
Hilltop	Four Mile Gulch	Four Mile Mining Co., Box 37, Alma	Silver, Lead, Zinc	Mine
Little Joe	Buckskin Gulch	Linus E. Pennell, 1341 Lamar St., Lakewood	Gold, Silver, Copper, Lead	Mine
Penn Hill Placer	Fairplay	Drake & Cole, Box 32, Loveland	Gold	Placer
Roberts Placer	Como	American Black Hawk Peat Co., 5545 N. Federal, Denver	Peat	Peat Bog
Russia	Mt. Lincoln	Triaqua Mining Co., Box 20, Alma	Silver	Mine
Sweet Home	Alma	Douglas-Soules Mining Co., Box 103, Fairplay	Silver, Copper, Lead	Mine

PARK COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Tarryall Mill	Lake George	Mineral Concentrates & Chemical Co., Room 1430 First National Bank Bldg., Denver	Lead, Zinc, Tungsten	Mill
Topper Hill Copper	Hartsell	Chas. T. Kirby & Ed Burks, Jr., 142 Cheyenne Blvd., Colorado Springs	Gold, Copper	Mine
Universal Peat Co.	Jefferson	Universal Peat Co., 5926 W. Arizona, Denver	Peat	Peat Bog

PITKIN COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Chapman Tunnel	Meredith	Winston, Foley, Frazier—Davis & Hurley, Box 73, Meredith		Tunnel
Highland Tunnel	Aspen	Minerals Engineering Co., Box 150, Aspen	Silver, Lead, Zinc	Mine
Pitkin Iron Mine	Ashcroft	Morrison-Knudsen Co., Inc., Box 98, Carbondale	Iron	Mine
South Fork Tunnel	Norrie	Winston, Foley, Frazier—Davis & Hurley, Box 73, Meredith		Tunnel

PROWERS COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Lamar	Lamar	Valley Concrete Co., 4th & Washington, Lamar	Sand, Gravel	Pit & Plant

PUEBLO COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Broderick & Gibbons	Pueblo	Broderick & Gibbons, 615 Santa Fe Drive, Pueblo	Sand, Gravel	Pit & Plant
Certified	Pueblo	Certified Concrete Co., Box 1340, Pueblo	Clay	Pit & Plant
Chamblin	Mustang	Standard Fire Brick Co., 25th & Albany, Pueblo	Clay	Mine
Chamblin #2	Mustang	Denver Brick & Pipe Co., Box 2329, Denver	Clay	Mine
Fountain	Pueblo	Fountain Sand & Gravel Co., Box 535, Pueblo	Sand, Gravel	Pit & Plant
Fox #1	Stone City	General Refractories Co., Box 192, Pueblo	Clay	Mine
Nellie Helen	Stone City	G. C. Bennetts & Son, Rt. 2, Box 822, Golden		
		Arthur L. Wands, Stone City Rt., Pueblo	Sand, Gravel	Quarry
Open Pit Mine	Stone City	General Refractories Co., Box 192, Pueblo	Clay	Mine
Pueblo Sand & Gravel	Pueblo	Jess Hunter, 11th & Santa Fe, Pueblo	Sand, Gravel	Pit & Plant
Red Mountain	Stone City	Walter H. Everhart, 2501 Cheyenne Ave., Pueblo	Clay	Mine
Rock Creek	Beulah	Standard Fire Brick Co., Box 1614, Pueblo	Clay	Mine
Siloam	Wetmore	Harbison-Walker Refractories Co., Box 150, Canon City	Clay	Mine

RIO BLANCO COUNTY

Butterfly Group	Uranium Peak	Lyle Francis, Box 204, Moab, Utah	Uranium, Vanadium	Mine
Midnight	Meeker	Harry H. Harp, Box 654, Meeker	Uranium, Vanadium	Mine
Shylo	Meeker	James Deveraux, 1040 Main St., Meeker	Uranium, Vanadium	Mine

ROUTT COUNTY

Ionex #1	McCoy	Ionex Engineering & Refining Corp., Box 564, Evergreen	Copper	Mine & Plant
McCoy Cinder Pit	McCoy	McCoy Aggregate Co., Box 575, McCoy	Cinders	Quarry

SAGUACHE COUNTY

Pitch	Sargents	Pinnacle Exploration Co., 1510 Glen Ayr Dr., Denver	Uranium	Mine
Rawley #2	Bonanza	Rawley Metals, Inc., Bonanza	Silver, Copper, Lead, Zinc	Mine
Superior	Bonanza	Rawley Metals, Inc., Bonanza	Silver, Copper, Lead, Zinc	Mill
Warwick	Bonanza	Cotter Corporation, Box 751, Canon City Warwick Mining Co., Apt. 220, Canon Hotel, Canon City	Silver, Copper, Lead, Zinc	Mine

SAN JUAN COUNTY

American Tunnel	Gladstone	Standard Metals Corp., Box 247, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Big Tom	Silverton	H. D. Case, Inc., Box 43, Mount Airy, Maryland	Gold, Silver, Copper, Lead, Zinc	Mine
Black Hawk	Gladstone	Silver Bay Mining, Inc., Box 281, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Blue Light	S. Mineral	Mary K. Williams, Box 426, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Boston DeWitt	Mineral Point	Thunderbird Mining Co., Box C, Gallup, New Mexico	Gold, Silver, Copper, Lead, Zinc	Mine
Columbine	Silverton	Kendall Columbine Mining Co., Box 457, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Columbus	Silverton	Maxwell Mining & Milling Co., Box 1293, Cortez	Gold, Silver, Copper, Lead, Zinc	Mine
Delano—Jer-Bar	Silverton	Jerry Matten, Box 513, Silverton	Gold, Silver, Copper, Lead, Zinc, Iron, Hubernite	Mine
Flat Broke Group	Cunningham Gulch	Logan Shelhamer, Box 203, Bayfield	Gold, Silver, Copper, Lead, Zinc	Mine

SAN JUAN COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Freida	Silverton	Whaley Mining Co., 1705 N. 1st, Grand Junction	Gold, Silver, Copper, Lead, Zinc	Mine
Graysill	Hermosa Creek	Vanadium Corporation of America, Box 5, Naturita	Uranium, Vanadium	Mine
Henrietta	Cement Creek	Northwood Inc., Box 547, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Hidden Treasure	Cunningham Gulch	Chester E. Wittwer, 620 Ford Dr., Durango	Gold, Silver, Copper, Lead, Zinc	Mine
Illinois	Howardsville	Louis Lynn Mines, 425 6th St., Durango	Gold, Silver, Copper, Lead, Zinc	Mine
Joe & John	Silverton	Northwood Inc., Box 547, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Lark	Cement Creek	P. H. Ruhter, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Little Dora	Silverton	Federal Resources, Inc., Ouray	Gold, Silver, Copper, Lead, Zinc	Mine
May Day	Cement Creek	Calco Mining Co., Box 577, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Narrow	Silverton	Louis Lynn Mines, 425 6th St., Durango	Gold, Silver	Mine
Osceola	Cunningham Gulch	Northwood Inc. & H. D. Mining Co., Box 547, Silverton Hitti & David Mining Co., Box 254, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Pride Mill	Howardsville	Northsilver Milling Corp., Silverton	Gold, Silver, Copper, Lead, Zinc	Mill
Pride of the West	Cunningham Gulch	Logan Shelhamer, Bayfield	Gold, Silver, Copper, Lead, Zinc	Mine
Richardson Group	Anvil Mountain	Frank Richardson, Box 546, Ouray	Gold, Silver, Copper, Lead, Zinc	Mine
Silver Wing	Silverton	Silver Wing Mining Co., Box 326, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Standard Mill	Silverton	Standard Metals Corp., Silverton	Gold, Silver, Copper, Lead, Zinc	Mill
Titusville	Silverton	Kendall Columbine Mining Co., Box 457, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Tom Moore	Animas River	Silver Wing Mining Co., Box 326, Silverton	Gold, Silver, Copper, Lead, Zinc	Mine
Velseta	Woods Mountain	Cross & Sons, Inc., Box 268, Cortez	Gold, Silver, Copper, Lead, Zinc	Mine

SAN MIGUEL COUNTY

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Alta Mine	Alta Basin	Oliver Brothers, Norwood	Gold, Silver, Copper, Lead, Zinc	Mine
Andrus	Ingram Basin	Eastridge Co., Box 243, Ouray	Gold, Silver, Copper, Lead, Zinc	Mine

Atlas & Clara Group	Matterhorn	John, Reno, & Frank Montonati, 683 4th Ave., Durango	Gold, Silver, Copper, Lead, Zinc	Mine
Ava Jay	Summit Point	Sanchez & Phelps, Box 208, Dove Creek	Uranium, Vanadium	Mine
Bachelor Shaft	Wedding Bell	Lark Washburn, 5353 Rollercoaster Rd., Tucson, Arizona	Uranium, Vanadium	Mine
Bald Eagle	Gyp Valley	Kenneth Spillman, Redvale Webb Resources, 1645 Court Place, Denver	Uranium, Vanadium	Mine
Bean #3, #5, #8	Bean Patch	Benny Martinez, Box 224, Dove Creek Dulaney Mining Co., Box 505, Dove Creek	Uranium, Vanadium	Mine
Bear Creek Group	Placerville	Vanadium Corporation of America, Box 5, Naturita	Uranium, Vanadium	Mine
Bob	Egnar	Jack Sage, Slick Rock	Uranium, Vanadium	Mine
Buckhorn	Slick Rock	Woodrow Gripe, Box 225, Naturita	Uranium, Vanadium	Mine
Burro #7	Slick Rock	D. C. Bunker, Box 153, Nucla	Uranium, Vanadium	Mine
Burro Tunnel, #3	Slick Rock	Cleghorn & Bond, Box 188, Nucla	Uranium, Vanadium	Mine
Carnation	Gyp Valley	Matterhorn Mining & Development Co., Box 1808, Grand Junction	Uranium, Vanadium	Mine
Chief #1	Egnar	Thomas Baldrey, Burns Rt., Dove Creek	Uranium, Vanadium	Mine
Cliff Dweller #2	Gyp Valley	Otis Dibler, Box 225, Norwood	Uranium, Vanadium	Mine
Depression	Spud Patch	Javernick Brothers, Box 712, Montrose	Uranium, Vanadium	Mine
Deremo	Egnar Flats	Union Carbide Corp., Mining & Metals Division, Uravan	Uranium, Vanadium	Mine
Dynamo	Telluride	George & Dick Koskinen, Box 474, Telluride	Gold, Silver, Lead, Zinc	Mine
Falcon	Egnar	Jack Sage, Slick Rock	Uranium, Vanadium	Mine
Fox	Mineral Mountain	Jack Milling, Egnar	Uranium, Vanadium	Mine
France	Bishop Canyon	Tom Baldrey, Burns Rt., Dove Creek	Uranium, Vanadium	Mine
G.M.G.	Gyp Valley	Climax Uranium Co., Box 1628, Grand Junction	Uranium, Vanadium	Mine
Gypsum Valley #3	Gyp Valley	Rex Holland, Box 243, Naturita	Uranium, Vanadium	Mine
Hackett	Egnar	Earl Hotz, Burns Rt., Dove Creek	Uranium, Vanadium	Mine
Hangover	Egnar	Ed Baird, Box 471, Dove Creek Thomas Baldrey, Burns Rt., Dove Creek Hughes Mining Co., Box 1886, Grand Junction Fritz & Erickson, Box 365, Dove Creek Jack Sage, Slick Rock	Uranium, Vanadium	Mine
Hawk #1	Egnar	Earl Hotz & Thomas Baldrey, Burns Rt., Dove Creek	Uranium, Vanadium	Mine
Hawk #2	Egnar	Ed Baird & Everett Robinett, Box 168, Dove Creek	Uranium, Vanadium	Mine
Idarado Mine	Telluride	Idarado Mining Co., Ouray	Gold, Silver, Copper, Lead, Zinc	Mine
Iron Springs Placer	Old Ophir	Boyd Oliver, Norwood	Bog Iron	Pit
Jack Knife	Wedding Bell	Clayton Stocks, Box 414, Moab, Utah	Uranium, Vanadium	Mine
Jack Pot	Gyp Valley	McGhghy-Peabody, Box 105, Cortez	Uranium, Vanadium	Mine
Jackie Walls	Slick Rock	Barela & Martinez, Box 421, Dolores	Uranium, Vanadium	Mine
Klondike Mines	Gyp Valley	Reed Brothers, Box 325, Naturita	Silver, Copper	Mine
Magpie	Gyp Valley	Frese, Lawrence & Venezio, Box 282, Naturita Dade & Shumway Mining Co., Box 967, Grand Junction	Uranium, Vanadium	Mine

SAN MIGUEL COUNTY—Continued

Name of Property	Location	Operator's Name & Address	Product	Kind of Property
Marie	Egnar	Terrance Hankins & Daniel Dalrymple, Egnar	Uranium, Vanadium	Mine
Marne	Spud Patch	A. C. Rinderle, 404 Sherman Dr., Grand Junction	Uranium, Vanadium	Mine
Moqui Jug	Spud Patch	Javernick Brothers, Box 712, Montrose	Uranium, Vanadium	Mine
Morning Star	Mt. Wilson	Gold Leaf Mining Co., Box 1056, Grand Junction	Gold, Silver, Lead	Mine
Murietta	Hamm Bench	Nichols Mining Co., Paradox	Uranium, Vanadium	Mine
New Dominion	Ophir	Randy Belisle, Ophir	Gold, Silver, Copper, Lead, Zinc	Mine
North Slope	Mt. Hayden	Jack Kassler, Rt. 2, Montrose	Gold, Silver, Copper, Lead, Zinc	Mine
Northern Light	Slick Rock	Fred Pritchett, Box 1184, Cahone	Uranium, Vanadium	Mine
Northern Ohio	Bear Creek	Eastridge Co., Box 243, Ouray	Gold	Mine
Pandora Mill	Telluride	Idarado Mining Co., Ouray	Gold, Silver, Copper, Lead, Zinc	Mill
Parrot #2	Horseshoe Bend	Oddie Cross, Box 1118, Slick Rock	Uranium, Vanadium	Mine
Penju	Gyp Valley	Pamgi Mining Co., Box 2206, Farmington, New Mexico S. C. Parker, J. V. Weir, Box 757, Durango	Uranium, Vanadium	Mine
Pond	Gyp Valley	Robert M. Hurst, 2661 Central Dr., Grand Junction	Uranium, Vanadium	Mine
Pooch	Gyp Valley	Partnership Enterprises, Basin Store, Redvale	Uranium, Vanadium	Mine
Radium #4	Bean Patch	Dulaney Mining Co., Box 505, Dove Creek Benny Martinez, Box 224, Dove Creek	Uranium, Vanadium	Mine
Radium #9	Bean Patch	Benny Martinez, Box 224, Dove Creek	Uranium, Vanadium	Mine
Radium #26	Summit Point	Ivan Hancock, Box 426, Dove Creek Dulaney Mining Co., Box 505, Dove Creek Johannsen Mining Co., Box 117, Nucla	Uranium, Vanadium	Mine
Red Ant	Egnar	Steve Jochim & Jim Jenco, 381 Chimle Ave., Moab, Utah	Uranium, Vanadium	Mine
Roy Lee	Disappointment Valley	Oddie Cross, Box 1118, Slick Rock	Uranium, Vanadium	Mine
San Bernardo & Valley View	Ophir	Silver Hat Mining, Inc., Box 664, Ophir	Gold, Silver, Copper, Lead, Zinc	Mine
San Miguel	Bean Patch	Benny Martinez, Box 224, Dove Creek	Uranium, Vanadium	Mine
Sego Lily Lou	Hamm Canyon	Strategic Minerals Exploration Co., Box 1648, Grand Junction	Uranium, Vanadium	Mine
Silver Hat	Matterhorn	Silver Hat Mining, Inc., Box 664, Ophir	Gold, Silver, Copper, Lead, Zinc	Mill
Silver Pick	Wilson Peak	Chastain Brothers, Terreton, Idaho	Gold, Silver, Lead	Placer

Strawberry Roan	Bishop Canyon	Dade & Shumway Mining Co., Box 967, Grand Junction	Uranium, Vanadium	Mine
Sunday #2	Gyp Valley	L. R. French, Monticello, Utah Climax Uranium Co., Box 1628, Grand Junction	Uranium, Vanadium	Mine
Sunrise #1	Bean Patch	Dade & Shumway Mining Co., Box 967, Grand Junction Dulaney Mining Co., Box 505, Dove Creek	Uranium, Vanadium	Mine
Tailholt	Slick Rock	Harold Johnson, Slick Rock	Uranium, Vanadium	Mine
Vanura	Hamm Canyon	V & L Mining Co. & Partnership Enterprises, Inc., Box 282, Naturita	Uranium, Vanadium	Mine
Wilmarth	Gyp Valley	Javernick Brothers, Box 712, Montrose	Uranium, Vanadium	Mine
Windswept	Gyp Valley	Javernick Brothers, Box 712, Montrose	Uranium, Vanadium	Mine

SUMMIT COUNTY

Blue Lake Dam	Hoosier Pass	Northwestern Engineering Co., Inc., Commerce City		Dam
Buffers Lake	Climax	C. Ryan & Son Construction Co., Climax	Sand, Gravel	Plant
Monte Cristo	Breckenridge	Monte Cristo Mining Co., 2827 Valley Hi Ave., Colorado Springs R. F. Major III, 2250 Crabtree Dr., Littleton	Gold, Silver, Lead, Zinc	Mine
Washington	Breckenridge	Dudley G. Green, 718 Security Life Bldg., Denver	Gold, Silver, Lead, Zinc	Mine

TELLER COUNTY

Alpen Meadows	Gillette	Alpen Meadows, Inc., Box 1074, Colorado Springs	Peat	Peat Bog
Cripple Creek	Gillette	Douglas Jardine, Inc., Box 3235, Colorado Springs		Dam
Havilah	Victor	Al Goodwin, Box 112, Victor	Gold, Silver	Mine
Molly Kathleen	Cripple Creek	Black Diamond Mining Co., Box 998, Cripple Creek	Tourist	Mine
Navajo	Crystola	Colorado Quartz & Minerals Corp., Box 132, Cascade	Quartz	Quarry
Pikes Peak	Florissant	Pikes Peak Granite, Inc., Box 415, Woodland Park	Granite	Quarry

Highway Projects

County	Location	Operator's Name and Address	Project
Mesa	Grand Junction Area	Wallace Beard Construction Co , 2041 N. 8th, Grand Junction	Highway, Dams
Montrose	Naturita & Norwood	Brasier Brothers, Norwood	Highway
Clear Creek	I-70 Lawson to Fall River	Colorado Constructors, Inc., 380 W. 62nd Ave., Denver	Highway
Garfield	I-70 Glenwood Springs		Highway
Summit	Straight Creek Tunnel		Highway
Gunnison	Iola	Corn Construction Co., Box 1240, Grand Junction	Highway
La Plata	Hermosa Creek		Highway
Montezuma	Four Corners Area		Highway
Montezuma	Four Corners Area	Everett J. Edgar, 1661 Dolores Ave., Grand Junction	Highway
Mesa	Southwestern Colorado	K. L. Etter Construction Co., 697—27.5 Road, Grand Junction	Highway
Pitkin	Redstone to Placita	Hubner Construction Co., Box 458, Carbondale	Highway
Montezuma	Four Corners Area	C. B. Johnson Co., Drawer S, Cortez	Highway
Gunnison	Spring Creek	C. C. Kidwell, Rt. 1, Palisade	Highway, Bridge
Lake	Leadville	Peter Kiewit Sons' Company	Highway
La Plata	Durango		Highway
Pueblo	Pueblo to Crow Junction	Domenic Leone Construction Co., Inc., 818 Oak St., Trinidad	Highway
Clear Creek	Empire Junction	H-E Lowdermilk, 1950 W. Dartmouth Ave., Englewood	Highway
Montrose			Highway
Summit	Kokomo to Climax	Z. H. Lowdermilk, Inc., 1950 W. Dartmouth Ave., Englewood	Highway
Dolores	Rico	McGechie Construction Co., Inc., Box 880, Cortez	Highway
La Plata	Hesperus & Red Mesa	C. E. Mills Construction Co., Box 279, Montrose	Highway
Dolores	Four Corners Area	Nielson, Inc., Box 648, Dolores	Highway
Eagle	County Road 104		Highway
Montrose	Naturita		Highway
San Miguel	Basin to Naturita		Highway

San Miguel	Alder Creek toward Dallas	Ozzello Construction Co., 829 W. Kansas, Trinidad	Highway
El Paso	Ute Pass & Highway 115	Pioneer Construction Co., Box 898, Pueblo	Highway
Huerfano	LaVeta Pass		Highway
Las Animas	Raton Pass		Highway
Pueblo	Crow Junction		Highway
Teller	Woodland Park		Gravel Pit
Fremont	Highway 9		Highway
Mesa	Grand Junction	Ramsour Brothers, Inc., Box 176, Castle Rock	Bridge
Garfield	Glenwood Springs	Rippy Construction Co., New Castle	Highway
Clear Creek	Empire Junction to Georgetown	Schmidt Construction, Inc., 338—30 Road, Grand Junction	Highway
Mesa	Cameo to Plato		Highway
Clear Creek	Empire Junction	Siegrist Construction Co., 7000 York St., Denver	Highway
Conejos	Cumbres Pass		Highway
Gunnison	Iola		Highway
Montrose	Montrose & Crystal Creek		Highway
Montezuma	Bear Creek & Rio Lado	Western Engineering Co., Box 334, Dolores	Highway

Oil and Gas Drilling and Producing Companies

Name and Address of Company	County	Operation
Allison Drilling Co., Box 709, Fort Morgan	Adams	Drilling
	Arapahoe	Drilling
	Larimer	Drilling
	Washington	Drilling
	Weld	Drilling
Arapahoe Drilling Co., 5303 E. Evans, Denver	Montezuma	Drilling
Atlas Well Service, Box 387, Fort Morgan	Larimer	Drilling
	Morgan	Drilling
	Washington	Drilling
Aztec Well Service, Aztec, New Mexico	Montezuma	Drilling
Baca Gas Gathering System, 500 Republic Bank Bldg., Dallas, Texas	Baca	Producing
Baker & Taylor Drilling Co., Box 2748, Amarillo, Texas	El Paso	Drilling
Baker Well Service, Rangely	Rio Blanco	Drilling
Beltramo Oil Co., 136 Front St., Florence	Fremont	Producing
C. & C. Well Service Inc., Kimball, Nebraska	Weld	Drilling
Cactus Drilling Co., Box 2146, Farmington, New Mexico	Montezuma	Producing
California Oil Co., Rangely	Rio Blanco	Producing
Calvert Western Exploration Co., Box 681, Grand Junction	Rio Blanco	Drilling
Circle A Drilling Co., 340 Denver Hilton Bldg., Denver	Lake	Drilling
	La Plata	Drilling
Colorado Well Service, Rangely	Moffat	Drilling
	Rio Blanco	Drilling
Craig Steel & Salvage Co., Box 778, Craig	Rio Blanco	Salvaging
Davis Drilling Co., 313 S. 5th, Lamar	Baca	Drilling
	Bent	Drilling
	Cheyenne	Drilling
	Kiowa	Drilling
Denver Drilling Co., Box 285, Fort Morgan	Morgan	Drilling
Equity Oil Co., 806 Utah Oil Bldg., Salt Lake City, Utah	Rio Blanco	Drilling
Evitt Drilling Co., Box 412, Casper, Wyoming	Moffat	Drilling
Exeter Drilling Co., 1010 Patterson Bldg., Denver	Kiowa	Drilling
	Morgan	Drilling
Flader Land Co., 3975 York St., Denver	Larimer	Drilling
R. H. Fulton, Box 1526, Lubbock, Texas	San Miguel	Drilling
J. W. Gibson Well Service, Inc., 900 Western Federal Savings Bldg., Denver	Larimer	Drilling
	Morgan	Drilling
	Washington	Drilling
Great Western Drilling Co., Box 1659, Midland, Texas	Archuleta	Producing
Gulick Drilling Co., 2234 S. Lipan St., Denver	Moffat	Drilling
Haas Well Service Co., Box 264, Sterling	Logan	Drilling
Robert R. Hale, 1332 W. 3rd, Florence	Fremont	Drilling
Hayden & Griffith Oil Well Service, Inc., 900 S. Myrtle, Kimball, Nebraska	Weld	Drilling

Horizon Oil & Gas Co., 500 Republic Bank Bldg., Dallas, Texas	Baca	Drilling
Hughes Estate, 3955 E. Kentucky Ave., Denver	Archuleta	Producing
Kerr-McGee Oil Industries, Inc., Kerr-McGee Bldg., Oklahoma City, Oklahoma	Baca	Drilling
Loffland Brothers Co., Box 688, Farmington, New Mexico	La Plata	Drilling
Mangels, Tucson, Arizona	La Plata	Drilling
McClinton Drilling Co., 3975 York St., Denver	Larimer	Drilling
Mead Drilling Co., Box 592, Rangely	Rio Blanco	Drilling
Miracle & Fifer Drilling Co., 416 C. A. Johnson Bldg., Denver	Larimer	Drilling
Miracle-Wooster Drilling Co., Vernal, Utah	Moffat	Drilling
Moran Brothers, Box 1319, Farmington, New Mexico	La Plata	Drilling
Mountain Fuel & Supply Co., Box 1129, Rock Springs, Wyoming	Moffat	Drilling
Murfin Drilling Co., 617 Union Center Bldg., Wichita, Kansas	Weld	Drilling
O'Quinn & Murray, Inc., Box 325, Fort Morgan	Morgan	Drilling
O'Quinn Well Service, Box 766, Fort Morgan	Adams	Drilling
	Morgan	Drilling
	Washington	Drilling
Peacock Well Service, Rangely	Rio Blanco	Drilling
Willard Pease Drilling Co., Box 548, Grand Junction	Mesa	Drilling
Ponka Drilling Co., Box 753, Rangely	Rio Blanco	Drilling
Rayco Drilling Co., Box 1741, Farmington, New Mexico	La Plata	Drilling
Ready Drilling Co., Farmington, New Mexico	Archuleta	Drilling
Service Drilling Co., 1307 S. Boulder, Tulsa, Oklahoma	Baca	Drilling
Signal Drilling & Exploration, Inc., Box 79, Casper, Wyoming	Rio Blanco	Drilling
	San Miguel	Drilling
Sterling Drilling Co., Box 127, Sterling, Kansas	Otero	Drilling
Stoeppelwerth Drilling, Inc., Box 193, Russell, Kansas	Yuma	Drilling
Toltek Drilling Co., 380 Denver Club Bldg., Denver	Logan	Drilling
Twin Arrows Drilling Co., Rangely	Rio Blanco	Drilling
Well Completions, Inc., Box 1356, Denver	Kiowa	Drilling

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